

# **EPA Registration File 67690-30**

## **Vol. 2**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Laurent Mezin  
SePRO Corporation  
11550 North Meridian Street  
Suite 600  
Carmel, Indiana 46032-4565

11-26-12

Subject: EPA Reg. 67690-30 / Fluridone SC Notification

Dear Laurent Mezin:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 9-28-12 for the product EPA Reg. 67690-30 / Fluridone SC. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions please call Erik Kraft at 703-308-9358 or email at [Kraft.Erik@epa.gov](mailto:Kraft.Erik@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "K. Montague", is positioned above the typed name.

Kathryn Montague  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

[Front label, ALL containers]



"Notification"  
Acceptable

# Fluridone SC

AQUATIC HERBICIDE

AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.

For use in New York State, comply with Section 24 (C) Special Local Need labeling for Fluridone SC, SLN NY[ ]

## Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone ..... 41.7%

Other Ingredients ..... 58.3%

TOTAL ..... 100.0%

Contains 4 pounds of fluridone per gallon.

## Keep Out of Reach of Children

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

Refer to inside of label booklet for additional precautionary information and directions for use including First Aid and storage and disposal.

**Notice:** Read the entire label before using. Use only according to label directions. **Before** buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.

EPA Reg. No. 67690-30  
FPL20120928

EPA Est. No. \_\_\_\_\_  
[SPC -] \_\_\_\_\_

SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032, U.S.A.

Net contents \_\_\_\_\_  
[Refillable/Nonrefillable container \_\_\_\_\_]

(Label booklet text)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

### ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidal water/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.



Shake well before using.

## **INSTRUCTIONS**

Fluridone SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Fluridone SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the specified concentration of Fluridone SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Fluridone SC in treated water will reduce its effectiveness.

In susceptible plants, Fluridone SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Fluridone SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Fluridone SC. Species susceptibility to Fluridone SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Fluridone SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Fluridone SC is not corrosive to application equipment.

This label provides recommendations on the use of a laboratory analysis for the active ingredient. SePRO Corporation recommends the use of high-performance liquid chromatography (HPLC) for the determination of fluridone concentrations in water. It is recommended to contact SePRO Corporation for the incorporation of this test, known as a FastEST, in a treatment program. FastEST is referenced in this label as the preferred method for the rapid determination of the active ingredient in water. Other proven chemical analyses for the active ingredient may also be used.

Application rates are provided in fluid ounces or quarts of Fluridone SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

## **SPECIAL PRECAUTIONS**

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Fluridone SC for hydroponic farming unless a FastEST has been run and confirmed that concentrations are less than 1 ppb.
- **Greenhouse and Nursery Plants:** Consult with SePRO Corporation for site-specific recommendations prior to any use of Fluridone SC treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Fluridone SC treated water for irrigating greenhouse or nursery plants unless a FastEST has been run



and confirmed that concentrations are less than 1 ppb.

- Water Use Restrictions Following Applications of Fluridone SC (Days)**

Application Rate	Drinking <sup>1</sup>	Fishing	Swimming	Livestock/Pet Consumption	Irrigation <sup>2</sup>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

<sup>1</sup> Note below, under *Potable Water Intakes*, the information for application of Fluridone SC within ¼ mile (1,320 feet) of a functional potable water intake.

<sup>2</sup> Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with water treated with Fluridone SC.

- Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Fluridone SC may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.**
- Irrigation:** Irrigation with water treated with Fluridone SC may result in injury to the irrigated vegetation. Inform those who irrigate from areas treated with Fluridone SC of the irrigation time frames or FastEST requirements presented in the table below. Follow the following time frames and assay directions to reduce the potential for injury to vegetation irrigated with water treated with Fluridone SC. There is a greater potential for crop injury when water treated with Fluridone SC is applied to crops grown in low organic and sandy soils.

WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC			
Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Fluridone SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Fluridone SC treated water is desired for irrigating crops prior to the time frames established above, the use of FastEST is recommended to measure the concentration in the treated water. Where FastEST has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf. **For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Fluridone SC treated water if**

concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.

## **WEED CONTROL INFORMATION**

Fluridone SC selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions, using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Fluridone SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Fluridone SC.

### **Vascular Aquatic Plants Controlled by Fluridone SC:**

#### **Floating Plants:**

Duckweed, Common (*Lemna minor*)

#### **Emersed Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

#### **Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria; Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort; Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed

Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

widgeon grass (*Ruppia maritima*)

#### **Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

### **Vascular Aquatic Plants Partially Controlled by Fluridone SC:**

#### **Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Fluridone SC applied at the maximum labeled rate.

#### **Emersed Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)



Smartweed (*Polygonum* spp.)  
 Spikerush (*Eleocharis* spp.)  
 Waterprimrose, Creeping (*Ludwigia peploides*)  
 Waterpurslane (*Ludwigia palustris*)  
 Watershield (*Brasenia schreberi*)

**Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)  
 Pondweed, Illinois (*Potamogeton illinoensis*)  
 Tapegrass; American Eelgrass (*Vallisneria americana*)  
 Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)

**Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)  
 Canarygrass, Reed (*Philaris arundinaceae*)  
 Cutgrass, Giant (*Zizaniopsis miliacea*)  
 Torpedograss (*Panicum repens*)  
 Watergrass, Southern (*Hydrochloa caroliniensis*)

**Vascular Aquatic Plants Not Controlled by Fluridone SC:**

**Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

**Emersed Plants:**

Arrowhead (*Sagittaria* spp.)  
 Bacopa (*Bacopa* spp.)  
 Big Floatingheart; Banana Lily (*Nymphoides aquatica*)  
 Bulrush (*Scirpus* spp.)  
 Frogbit, American (*Limnobium spongia*)  
 Pickerelweed; Lanceleaf (*Pontederia* spp.)  
 Rush (*Juncus* spp.)  
 Waterhyacinth, Floating (*Eichornia crassipes*)  
 Water Pennywort (*Hydrocotyle umbellata*)

**Shoreline Grasses:**

Maidencane (*Panicum hemitomon*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Fluridone SC.

**MIXING AND APPLICATION DIRECTIONS**

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Fluridone SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Fluridone SC well before using.** Add the specified amount of Fluridone SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Fluridone SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Fluridone SC may also be diluted with water and the concentrated mix metered into the pumping system.



### Tank Mix Directions

Fluridone SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.

### Application to Ponds

Fluridone SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre			Fluid Ounces of Fluridone SC per Treated Surface Acre		
	45 ppb	to	90 ppb	45 ppb	to	90 ppb
1	0.12		0.24	3.8		7.7
2	0.24		0.49	7.7		15.7
3	0.37		0.73	11.8		23.4
4	0.49		0.98	15.7		31.4
5	0.61		1.22	19.5		39.0
6	0.73		1.46	23.4		46.7
7	0.85		1.70	27.2		54.4
8	0.98		1.95	31.4		62.4
9	1.10		2.19	35.2		70.1
10	1.22		2.44	39.0		78.1

### Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Fluridone SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

#### ➤ Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs: Where single applications to whole lakes or reservoirs are desired, apply Fluridone SC at an application rate of 10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the

section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Choose an application rate from the table below to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species.

Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following section, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre			Fluid Ounces of Fluridone SC per Treated Surface Acre		
	10 ppb	to	90 ppb	10 ppb	to	90 ppb
1	0.03		0.24	1.0		7.7
2	0.05		0.49	1.6		15.7
3	0.08		0.73	2.6		23.4
4	0.11		0.98	3.2		31.4
5	0.14		1.22	4.5		39.0
6	0.16		1.46	5.1		46.7
7	0.19		1.70	6.1		54.4
8	0.22		1.95	7.0		62.4
9	0.24		2.19	7.6		70.1
10	0.27		2.44	8.6		78.1
11	0.30		2.68	9.6		86.0
12	0.32		2.93	10.2		93.8
13	0.35		3.17	11.2		101.4
14	0.38		3.42	12.1		109.4
15	0.41		3.66	13.1		117.1
16	0.43		3.90	13.8		124.8
17	0.46		4.15	14.7		132.2
18	0.49		4.39	15.7		140.5
19	0.51		4.63	16.3		148.2
20	0.54		4.88	17.3		156.2

Split or Multiple Applications to Whole Lakes or Reservoirs: To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. FastEST or other appropriate means of analysis, add additional Fluridone SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater



plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Fluridone SC, the utilization of FastEST is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

**NOTE:** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### ➤ **Partial Lake or Reservoir Treatments**

Where dilution of Fluridone SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Fluridone SC in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Fluridone SC concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Treatment Areas Greater than ¼ Mile from a Functioning Potable Water Intake: For single applications, apply Fluridone SC at application rates from 30 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications may be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of FastEST, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake: In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Fluridone SC for sites that contain a potable water intake, FastEST or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### **Application Rate Calculation — Ponds, Lakes and Reservoirs**

The amount of Fluridone SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Fluridone SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Fluridone SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Fluridone SC, quarts may be converted to fluid ounces by



multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates may not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

### Application to Drainage Canals and Irrigation Canals

- **Static Canals:** In static drainage and irrigation canals, apply Fluridone SC at the rate of 1 to 2 quarts per treated surface acre.
- **Moving Water Canals:** The performance of Fluridone SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Fluridone SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of FastEST or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.
- **Static or Moving Water Canals Containing a Functioning Potable Water Intake:** In treating a static or moving water canal that contains a functioning potable water intake, **DO NOT** apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Fluridone SC are made within ¼ mile from a functioning potable water intake, the FastEST or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

### Application Rate Calculation — Moving Water Drainage Canals and Irrigation Canals

The amount of Fluridone SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Fluridone SC required per day

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

#### Pesticide Storage:

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

#### Pesticide Disposal:

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

#### Container Handling

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds.



Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity >5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

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## TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

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## WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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## INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of this product contrary to label instructions (including conditions noted on the label such as

unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

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#### **LIMITATION OF REMEDIES**

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for the product bought, or
- (2) Replacement of amount of the product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use*, and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitations of Remedies* in any manner.

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\*Trademark of SePRO Corporation



[Base label for all containers]



**Fluridone SC**  
AQUATIC HERBICIDE

**Active Ingredient**fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone ..... 41.7%**Other Ingredients** ..... 58.3%**TOTAL** ..... 100.0%

Contains 4 pounds of fluridone per gallon of product.

**Keep Out of Reach of Children****CAUTION / PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail).

**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

**ENVIRONMENTAL HAZARDS**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage or disposal.

**Pesticide Storage:**

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

**Pesticide Disposal:**

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

**Container Handling**

**Nonrefillable Container.** **DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.**

Refer to inside the label booklet for additional precautionary information and directions for use.

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-30  
FPL20120928

EPA Est. No. \_\_\_\_\_  
[SPC -] \_\_\_\_\_

SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032, U.S.A.

Net contents \_\_\_\_\_  
[Refillable/Nonrefillable container \_\_\_\_\_]





SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 Fax: (317) 580-8290

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28 September 2012

Kathryn Montague  
Product Manager 23  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**Subject: Fluridone SC (EPA Reg. No. 67690-30)  
Notification – Minor label changes per PR Notice 98-10**

Dear Ms. Montague:

SePRO is submitting a notification for our product Fluridone SC (EPA Reg. No. 67690-30).

This submission updates the label as follows:

- Added NY specific language for SLN
- Moved base label to the back. Text was not changed. This change is not highlighted.
- Moved the Storage and Disposal Section to the back of the booklet.
- Added Widgeon grass as a controlled species.
- Included text on the use of FastEST, already approved in most other SePRO Fluridone labels.
- In Storage and Disposal, changed 'Container disposal' to Container handling'.

Please find enclosed the following information:

- Transmittal document (this letter)
- Application for Pesticide Registration, EPA Form 8570-1
- One clean and one highlighted copy of the label.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
*Phone: (317) 580-8282 Fax: (317) 580-8290*

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If you have any questions regarding this submission, please contact me at (317) 580-8286.

Sincerely,

A handwritten signature in blue ink that reads "Laurent Mézin".

Laurent C. Mézin, Ph.D.  
Manager, Regulatory Affairs  
SePRO Corporation

Enclosures

<b>EPA</b> United States <b>Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input checked="" type="checkbox"/> <b>Other</b>	OPP Identifier Number
<b>Application for Pesticide - Section I</b>			
1. Company/Product Number 67690-30		2. EPA Product Manager Kathryn Montague	
4. Company/Product (Name) SePRO / Fluridone SC		PM# 23	3. Proposed Classification <input checked="" type="checkbox"/> New <input type="checkbox"/> Restricted
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	
<b>Section II</b>			
<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input checked="" type="checkbox"/> Notification - Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below.	
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of minor changes to the label, per PRN98-10			
<b>Section III</b>			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No  <b>*Certification must be submitted</b>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If "Yes" Unit Packaging wgt.      No. per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If "Yes" Package wgt.      No. per Container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-275 Gallons	
5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	
<b>Section IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Laurent C. Mézin		Title Regulatory Affairs Manager	Telephone No. (Include Area Code) (317) 580-8286
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature  BY: 		3. Title Regulatory Affairs Manager	
4. Typed Name: Laurent C. Mézin		5. Date: 28 September 2012	

# Fluridone SC

AQUATIC HERBICIDE

(ABN = Avast! SC)

EPA Reg. No. 67690-30

**FPL20120928 Highlighted**

**Registration Notes:** Based on EPA-Stamped label with FPL20111108

## Label Notes:

### EPA requested Changes:

1. Updated FPL date
2. Added NY specific language for SLN
3. Moved base label to the back. Text was not changed. This change is not highlighted
4. Moved the Storage and Disposal Section to the back of the booklet.
5. Added Widgeon grass as a controlled species.
6. Included text on the use of FastEST, already approved in most other SePRO Fluridone labels.
7. In Storage and Disposal, changed 'Container disposal' to Container handling'.



**Receipt for Section 3**

S:  Resubmission: ☐ Yes ☒ No

Regulatory Type:  Fee For Service: ☐ Yes ☒ No

Application Type:



Company:



Risk Manager:

Product #:  Product Name:

Override#:

Me Too Section3:  Me Too Product Name:

Application Date:   OPP Rec'd Date:  

Front End Date:   Risk Manager Send Date:  

FFS Due Date:  Negotiated Due Date:

OPP Target Date:

Fast Track: ☐ New Ingredient: ☐

Receipt Description:

Form A: ☐ Signature Date:  Form B: ☐ Signature Date:

New Ingredient Request Date:

New Ingredient Received Date:

**Receipt Content**



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 Fax: (317) 580-8290

---

29 March 2012

Kathryn Montague; PM23  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**RE: Fluridone SC (EPA Reg. No. 67690-30)**  
**Notification per PR Notice 98-10 to submit Final Printed Labels with ABN**  
**Avast! SC**

Dear Ms Montague:

SePRO Corporation is submitting as a notification under PR Notice 98-10 the Final Printed Labels for the product Fluridone SC with the alternate brand name Avast! SC.

The following enclosed items support this notification:

- Cover letter (this document);
- Application for Registration, EPA Form 8570-1;
- One copy of the Final Printed Label for Avast !SC.

This notification is consistent with the provisions of the PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

If you have any questions, please do not hesitate to contact me at (317) 580-8286 or at [LaurentM@sepro.com](mailto:LaurentM@sepro.com).


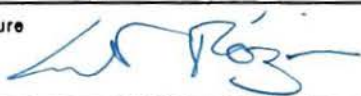
Best Regards,

A handwritten signature in blue ink that reads "Laurent Mézin".

Laurent C. Mézin  
Regulatory Affairs Manager

Enclosures



 United States <b>Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
<b>Application for Pesticide - Section I</b>			
1. Company/Product Number 67690-30		2. EPA Product Manager Kathryn Montague	
4. Company/Product (Name) SePRO / Fluridone SC		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
<b>Section - II</b>			
<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> Notification - Explain below.		<input checked="" type="checkbox"/> Final printed labels in response to 15Feb2011 Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.	
<b>Explanation:</b> Use additional page(s) if necessary. (For section I and Section II.)  Submission of Final Printed Label.			
<b>Section - III</b>			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Certification must be submitted	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt    No. per container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 - 275 gal	
		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____	
<b>Section - IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)			
Name Laurent C. Mézin		Title Mgr, Regulatory Affairs Telephone No. (Include Area Code) 317-580-8286	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received  (Stamped)
2. Signature 		3. Title Mgr, Regulatory Affairs	
4. Typed Name Laurent C. Mézin		5. Date 29 March 2012	

# Avast!® sc

Aquatic Herbicide

AVAS7015



An herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, potable water sources, drainage canals and irrigation canals.

**Active Ingredient**

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone . . . . . 41.7%

**Other Ingredients** . . . . . 58.3%

**TOTAL** . . . . . 100.0%

Contains 4 pounds of fluridone per gallon.

**Keep Out of Reach of Children**

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

Refer to inside of label booklet for additional precautionary information and directions for use including storage and disposal.

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies** inside label booklet.

EPA Reg. No. 67690-30 EPA Est. No. 07690-NC-001  
FPL20111108 17015001

\*Trademark of SePRO Corporation  
**SePRO Corporation** 11550 N. Meridian Street, Suite 600 Carmel, IN 46032, U.S.A.

Aquatic Herbicide

Net contents **1 gallon** Nonrefillable



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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### KEEP OUT OF REACH OF CHILDREN

## CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

### ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Avast! SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

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### DIRECTIONS FOR USE

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It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

**Shake well before using.**

#### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

##### **Pesticide Storage:**

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

##### **Pesticide Disposal:**

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

##### **Container Disposal**

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying, then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity  $\leq$  5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity  $>$  5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use, return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.



## INSTRUCTIONS

Avast! SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Avast! SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the specified concentration of Avast! SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Avast! SC in treated water will reduce its effectiveness.

In susceptible plants, Avast! SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Avast! SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Avast! SC. Species susceptibility to Avast! SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Avast! SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Avast! SC is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test), or other appropriate means of analysis, for the determination of the concentration of active ingredient in treated water. Contact SePRO Corporation for the utilization of this test and for the incorporation of this analysis into your treatment program. Application rates are provided in fluid ounces or quarts of Avast! SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

## SPECIAL PRECAUTIONS

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Avast! SC for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water treated with Avast! SC for irrigating greenhouse or nursery plants unless use of an approved assay, such as an ELISA Test, confirms that residues are less than 1 ppb.
- **Water Use Restrictions Following Applications of Avast! SC (Days)**

Application Rate	Drinking <sup>1</sup>	Fishing	Swimming	Livestock/Pet Consumption	Irrigation <sup>2</sup>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

<sup>1</sup> Note below, under *Potable Water Intakes*, the information for application of Avast! SC within ¼ mile (1,320 feet) of a functional potable water intake.

<sup>2</sup> Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with water treated with Avast! SC.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Avast! SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Avast! SC may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** Irrigation with water treated with Avast! SC may result in injury to the irrigated vegetation. Inform those who irrigate from areas treated with Avast! SC of the irrigation time frames or water assay requirements presented in the table below. Follow the following time frames and assay directions to reduce the potential for injury to vegetation irrigated with water treated with Avast! SC. There is a greater potential for crop injury when water treated with Avast! SC is applied to crops grown in low organic and sandy soils.

WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH AVAST! SC			
Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Avast! SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Avast! SC treated water is desired for irrigating crops prior to the time frames established above, the use of ELISA or other appropriate means of analysis is recommended to measure the concentration in the treated water. Where ELISA has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf. **For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Avast! SC treated water if concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.**

#### WEED CONTROL INFORMATION

Avast! SC selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions, using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Avast! SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Avast! SC.



**Vascular Aquatic Plants Controlled by Avast! SC:**

**Floating Plants:**

Duckweed, Common (*Lemna minor*)

**Emerald Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

**Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria, Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort, Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed

Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

**Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

**Vascular Aquatic Plants Partially Controlled by Avast! SC:**

**Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Avast! SC applied at the maximum labeled rate.

**Emerald Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)

Smartweed (*Polygonum* spp.)

Spikerush (*Eleocharis* spp.)

Waterprimrose, Creeping (*Ludwigia peploides*)

Waterpurslane (*Ludwigia palustris*)

Watershield (*Brasenia schreberi*)

**Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)

Pondweed, Illinois (*Potamogeton illinoensis*)

Tapegrass, American Eelgrass (*Vallisneria spiralis*)

Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)

**Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)  
Canarygrass, Reed (*Philaris arundinaceae*)  
Cutgrass, Giant (*Zizaniopsis miliacea*)  
Torpedograss (*Panicum repens*)  
Watergrass, Southern (*Hydrochloa carolinensis*)

**Vascular Aquatic Plants Not Controlled by Avast! SC:****Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

**Emersed Plants:**

Arrowhead (*Sagittaria* spp.)  
Bacopa (*Bacopa* spp.)  
Big Floatingheart, Banana Lily (*Nymphoides aquatica*)  
Bulrush (*Scirpus* spp.)  
Frogbit, American (*Limnobiium spongia*)  
Pickerelweed, Lanceleaf (*Pontederia* spp.)  
Rush (*Juncus* spp.)  
Waterhyacinth, Floating (*Eichornia crassipes*)  
Water Pennywort (*Hydrocotyle umbellata*)

**Shoreline Grasses:**

Maidencane (*Panicum hemitomon*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Avast! SC.

**MIXING AND APPLICATION DIRECTIONS**

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Avast! SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Avast! SC well before using.** Add the specified amount of Avast! SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Avast! SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Avast! SC may also be diluted with water and the concentrated mix metered into the pumping system.

**Tank Mix Directions**

Avast! SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.

**Application to Ponds**

Avast! SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Split or multiple applications may be used where dilution of treated water is anticipated, however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.



Average Water Depth of Treatment Site (feet)	Quarts of Avast! SC per Treated Surface Acre 45 ppb to 90 ppb		Fluid Ounces of Avast! SC per Treated Surface Acre 45 ppb to 90 ppb	
1	0.12	0.24	3.8	7.7
2	0.24	0.49	7.7	15.7
3	0.37	0.73	11.8	23.4
4	0.49	0.98	15.7	31.4
5	0.61	1.22	19.5	39.0
6	0.73	1.46	23.4	46.7
7	0.85	1.70	27.2	54.4
8	0.98	1.95	31.4	62.4
9	1.10	2.19	35.2	70.1
10	1.22	2.44	39.0	78.1

#### Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Avast! SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

##### ➤ Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs: Where single applications to whole lakes or reservoirs are desired, apply Avast! SC at an application rate of 10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Choose an application rate from the table below to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following section, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Avast! SC per Treated Surface Acre		Fluid Ounces of Avast! SC per Treated Surface Acre	
	10 ppb	to 90 ppb	10 ppb	to 90 ppb
1	0.03	0.24	1.0	7.7
2	0.05	0.49	1.6	15.7
3	0.08	0.73	2.6	23.4
4	0.11	0.98	3.2	31.4
5	0.14	1.22	4.5	39.0
6	0.16	1.46	5.1	46.7
7	0.19	1.70	6.1	54.4
8	0.22	1.95	7.0	62.4
9	0.24	2.19	7.6	70.1
10	0.27	2.44	8.6	78.1
11	0.30	2.68	9.6	86.0
12	0.32	2.93	10.2	93.8
13	0.35	3.17	11.2	101.4
14	0.38	3.42	12.1	109.4
15	0.41	3.66	13.1	117.1
16	0.43	3.90	13.8	124.8
17	0.46	4.15	14.7	132.2
18	0.49	4.39	15.7	140.5
19	0.51	4.63	16.3	148.2
20	0.54	4.88	17.3	156.2

**Split or Multiple Applications to Whole Lakes or Reservoirs:** To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. ELISA or other appropriate means of analysis, add additional Avast! SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Avast! SC, the utilization of ELISA is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

**NOTE** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

➤ **Partial Lake or Reservoir Treatments**

Where dilution of Avast! SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Avast! SC in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Avast! SC concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Treatment Areas Greater than ¼ Mile from a Functioning Potable Water Intake: For single applications, apply Avast! SC at application rates from 30 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications may be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of ELISA, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake: In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Avast! SC for sites that contain a potable water intake, ELISA or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

#### **Application Rate Calculation — Ponds, Lakes and Reservoirs**

The amount of Avast! SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Avast! SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Avast! SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Avast! SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates may not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

#### **Application to Drainage Canals and Irrigation Canals**

- Static Canals: In static drainage and irrigation canals, apply Avast! SC at the rate of 1 to 2 quarts per treated surface acre.
- Moving Water Canals: The performance of Avast! SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Avast! SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of ELISA or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.
- Static or Moving Water Canals Containing a Functioning Potable Water Intake: In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Avast! SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Avast! SC are made within ¼ mile from a functioning potable water intake, the ELISA or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

#### **Application Rate Calculation — Moving Water Drainage Canals and Irrigation Canals**

The amount of Avast! SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Avast! SC required per day



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## **TERMS AND CONDITIONS OF USE**

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

---

## **WARRANTY DISCLAIMER**

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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## **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of this product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

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## **LIMITATION OF REMEDIES**

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for the product bought, or
- (2) Replacement of amount of the product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use*, and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitations of Remedies* in any manner.

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NOTES

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SePRO

## Avast! SC

Aquatic Herbicide

### Active Ingredient

fluridone, 1-methyl-3-phenyl-5-[3-(trifluoromethyl)  
phenyl]-4(1H)-pyridinone ..... 41.7%

**Other Ingredients** ..... 58.3%  
**TOTAL** ..... 100.0%

Contains 4 pounds of fluridone per gallon of product.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

## Keep Out of Reach of Children CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Avast! SC may occasionally develop chlorosis. Do not apply in tidal water/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

Refer to inside the label booklet for additional precautionary information and directions for use.

**Notice:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.

EPA Reg. No. 67690-30

FPL20111108

\*Trademark of SePRO Corporation

SePRO Corporation 11550 N. Meridian Street, Suite 600, Carmel, IN 46032 U.S.A.

EPA Est. No. 067690-NC-001

17015001

Aquatic Herbicide

AVAS7015

PEEL FILM HERE

### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at 1-800-535-5053.

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

**Pesticide Disposal:** Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

#### Container Disposal

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying, then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

Net contents 1 gallon Nonrefillable





SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 Fax: (317) 428-4577

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09 November 2011

Kathryn Montague; PM23  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**RE: Fluridone SC (EPA Reg. No. 67690-30)**  
**Notification per PR Notice 98-10 to submit Final Printed Labels**

Dear Ms Montague:

SePRO Corporation (SePRO, EPA Company Number 67690) is submitting as a notification under PR Notice 98-10 the Final Printed Labels for the product Fluridone SC.

The following enclosed items support this notification:

- Cover letter (this document);
- Application for Registration, EPA Form 8570-1;
- One copy of the Final Printed Label for Fluridone SC.

This notification is consistent with the provisions of the PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

If you have any questions, please do not hesitate to contact me at (317) 580-8286 or at [LaurentM@sepro.com](mailto:LaurentM@sepro.com).

Best Regards,

A handwritten signature in blue ink that reads "Laurent Mézin".

Laurent Mézin  
Regulatory Affairs Manager

Enclosures



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 67690-30	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) SePRO / Fluridone SC	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of minor changes to the label, per PRN98-10: Submission of Final Printed Label.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 - 275 gal		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Laurent Mezin	Title Mgr, Regulatory Affairs	Telephone No. (Include Area Code) 317-580-8286
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Mgr, Regulatory Affairs	
4. Typed Name Laurent Mezin	5. Date 08 November 2011	

# Fluridone SC

AQUATIC HERBICIDE

(ABN = Avast! SC)

EPA Reg. No. 67690-30

FPL20111108 Clean

**Registration Notes:** Based on EPA-Stamped label with FPL102510. Amended per EPA letter of 15Feb11

## Label Notes:

**EPA requested Changes:**

1. Removed the word 'general' in 'general information.'



[Base label for all containers]



**Fluridone SC**  
AQUATIC HERBICIDE

**Active Ingredient**fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone..... 41.7%**Other Ingredients**..... 58.3%**TOTAL**..... 100.0%

Contains 4 pounds of fluridone per gallon of product.

**Keep Out of Reach of Children****CAUTION / PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail).

**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID**

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

**ENVIRONMENTAL HAZARDS**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage or disposal.

**Pesticide Storage:**

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

**Pesticide Disposal:**

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

**Container Disposal**

**Nonrefillable Container.** **DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.**

Refer to inside the label booklet for additional precautionary information and directions for use.

**Notice:** Read the entire label before using. Use only according to label directions. **Before** buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.

EPA Reg. No. 67690-30  
FPL20111108

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032, U.S.A.

Net contents \_\_\_\_\_  
[Refillable/Nonrefillable container \_\_\_\_\_]



[Front label, ALL containers]



# Fluridone SC

## AQUATIC HERBICIDE

AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.

### Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone..... 41.7%

Other Ingredients ..... 58.3%

TOTAL ..... 100.0%

Contains 4 pounds of fluridone per gallon.

### Keep Out of Reach of Children

### CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail).

Refer to inside of label booklet for additional precautionary information and directions for use including storage and disposal.

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.**

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	



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Net contents \_\_\_\_\_  
[Refillable/Nonrefillable container \_\_\_\_\_]

(Label booklet text)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

### ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.



Shake well before using.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

### **Pesticide Storage:**

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

### **Pesticide Disposal:**

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

### **Container Disposal**

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity  $\leq 5$  gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity  $>5$  gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.



## **INSTRUCTIONS**

Fluridone SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Fluridone SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the specified concentration of Fluridone SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Fluridone SC in treated water will reduce its effectiveness.

In susceptible plants, Fluridone SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Fluridone SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Fluridone SC. Species susceptibility to Fluridone SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Fluridone SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Fluridone SC is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test), or other appropriate means of analysis, for the determination of the concentration of active ingredient in treated water. Contact SePRO Corporation for the utilization of this test and for the incorporation of this analysis into your treatment program. Application rates are provided in fluid ounces or quarts of Fluridone SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

## **SPECIAL PRECAUTIONS**

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Fluridone SC for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water treated with Fluridone SC for irrigating greenhouse or nursery plants unless use of an approved assay, such as an ELISA Test, confirms that residues are less than 1 ppb.
- **Water Use Restrictions Following Applications of Fluridone SC (Days)**

<b>Application Rate</b>	<b>Drinking<sup>1</sup></b>	<b>Fishing</b>	<b>Swimming</b>	<b>Livestock/Pet Consumption</b>	<b>Irrigation<sup>2</sup></b>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below



<sup>1</sup> Note below, under *Potable Water Intakes*, the information for application of Fluridone SC within ¼ mile (1,320 feet) of a functional potable water intake.

<sup>2</sup> Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with water treated with Fluridone SC.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Fluridone SC may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** Irrigation with water treated with Fluridone SC may result in injury to the irrigated vegetation. Inform those who irrigate from areas treated with Fluridone SC of the irrigation time frames or water assay requirements presented in the table below. Follow the following time frames and assay directions to reduce the potential for injury to vegetation irrigated with water treated with Fluridone SC. There is a greater potential for crop injury when water treated with Fluridone SC is applied to crops grown in low organic and sandy soils.

WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC			
Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Fluridone SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Fluridone SC treated water is desired for irrigating crops prior to the time frames established above, the use of ELISA or other appropriate means of analysis is recommended to measure the concentration in the treated water. Where ELISA has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

**For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Fluridone SC treated water if concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.**

## WEED CONTROL INFORMATION

Fluridone SC selectivity is dependent upon dosage, time of year, stage of growth, method of

application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions, using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Fluridone SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Fluridone SC.

### **Vascular Aquatic Plants Controlled by Fluridone SC:**

#### **Floating Plants:**

Duckweed, Common (*Lemna minor*)

#### **Emerged Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

#### **Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria; Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort; Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed

Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

#### **Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

### **Vascular Aquatic Plants Partially Controlled by Fluridone SC:**

#### **Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Fluridone SC applied at the maximum labeled rate.

#### **Emerged Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)

Smartweed (*Polygonum* spp.)

Spikerush (*Eleocharis* spp.)

Waterprimrose, Creeping (*Ludwigia peploides*)

Waterpurslane (*Ludwigia palustris*)

Watershield (*Brasenia schreberi*)

#### **Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)

Pondweed, Illinois (*Potamogeton illinoensis*)

Tapegrass; American Eelgrass (*Vallisneria americana*)



Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)

### **Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)  
 Canarygrass, Reed (*Philaris arundinaceae*)  
 Cutgrass, Giant (*Zizaniopsis miliacea*)  
 Torpedograss (*Panicum repens*)  
 Watergrass, Southern (*Hydrochloa caroliniensis*)

### **Vascular Aquatic Plants Not Controlled by Fluridone SC:**

#### **Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

#### **Emersed Plants:**

Arrowhead (*Sagittaria* spp.)  
 Bacopa (*Bacopa* spp.)  
 Big Floatingheart; Banana Lily (*Nymphoides aquatica*)  
 Bulrush (*Scirpus* spp.)  
 Frogbit, American (*Limnobium spongia*)  
 Pickerelweed; Lanceleaf (*Pontederia* spp.)  
 Rush (*Juncus* spp.)  
 Waterhyacinth, Floating (*Eichornia crassipes*)  
 Water Pennywort (*Hydrocotyle umbellata*)

#### **Shoreline Grasses:**

Maidencane (*Panicum hemitomon*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Fluridone SC.

### **MIXING AND APPLICATION DIRECTIONS**

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Fluridone SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Fluridone SC well before using.** Add the specified amount of Fluridone SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Fluridone SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Fluridone SC may also be diluted with water and the concentrated mix metered into the pumping system.

#### **Tank Mix Directions**

Fluridone SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.

#### **Application to Ponds**

Fluridone SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control

species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre		Fluid Ounces of Fluridone SC per Treated Surface Acre	
	45 ppb	to 90 ppb	45 ppb	to 90 ppb
1	0.12	0.24	3.8	7.7
2	0.24	0.49	7.7	15.7
3	0.37	0.73	11.8	23.4
4	0.49	0.98	15.7	31.4
5	0.61	1.22	19.5	39.0
6	0.73	1.46	23.4	46.7
7	0.85	1.70	27.2	54.4
8	0.98	1.95	31.4	62.4
9	1.10	2.19	35.2	70.1
10	1.22	2.44	39.0	78.1

### Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Fluridone SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

#### ➤ Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs: Where single applications to whole lakes or reservoirs are desired, apply Fluridone SC at an application rate of 10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Choose an application rate from the table below to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In



these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following section, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre		Fluid Ounces of Fluridone SC per Treated Surface Acre	
	10 ppb	to 90 ppb	10 ppb	to 90 ppb
1	0.03	0.24	1.0	7.7
2	0.05	0.49	1.6	15.7
3	0.08	0.73	2.6	23.4
4	0.11	0.98	3.2	31.4
5	0.14	1.22	4.5	39.0
6	0.16	1.46	5.1	46.7
7	0.19	1.70	6.1	54.4
8	0.22	1.95	7.0	62.4
9	0.24	2.19	7.6	70.1
10	0.27	2.44	8.6	78.1
11	0.30	2.68	9.6	86.0
12	0.32	2.93	10.2	93.8
13	0.35	3.17	11.2	101.4
14	0.38	3.42	12.1	109.4
15	0.41	3.66	13.1	117.1
16	0.43	3.90	13.8	124.8
17	0.46	4.15	14.7	132.2
18	0.49	4.39	15.7	140.5
19	0.51	4.63	16.3	148.2
20	0.54	4.88	17.3	156.2

Split or Multiple Applications to Whole Lakes or Reservoirs: To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. ELISA or other appropriate means of analysis, add additional Fluridone SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Fluridone SC, the utilization of ELISA is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

**NOTE:** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single



application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### ➤ **Partial Lake or Reservoir Treatments**

Where dilution of Fluridone SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Fluridone SC in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Fluridone SC concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Treatment Areas Greater than ¼ Mile from a Functioning Potable Water Intake: For single applications, apply Fluridone SC at application rates from 30 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications may be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of ELISA, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake: In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Fluridone SC for sites that contain a potable water intake, ELISA or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### **Application Rate Calculation — Ponds, Lakes and Reservoirs**

The amount of Fluridone SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Fluridone SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Fluridone SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Fluridone SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates may not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

### **Application to Drainage Canals and Irrigation Canals**

- Static Canals: In static drainage and irrigation canals, apply Fluridone SC at the rate of 1 to 2 quarts per treated surface acre.



- **Moving Water Canals:** The performance of Fluridone SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Fluridone SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of ELISA or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.
- **Static or Moving Water Canals Containing a Functioning Potable Water Intake:** In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Fluridone SC are made within ¼ mile from a functioning potable water intake, the ELISA or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

#### **Application Rate Calculation — Moving Water Drainage Canals and Irrigation Canals**

The amount of Fluridone SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Fluridone SC required per day

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#### **TERMS AND CONDITIONS OF USE**

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

---

#### **WARRANTY DISCLAIMER**

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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#### **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of this product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

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**LIMITATION OF REMEDIES**

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for the product bought, or
- (2) Replacement of amount of the product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use*, and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitations of Remedies* in any manner.

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# Material to be added to an e-Jacket/Jacket

Reg. No. 67690-30

Doc# 442770

Description: Amended Label

1. ☒ Placement within the e-Jacket/jacket:

☒ Default: (chronological, top = newest)

☐ File Location: (PDF page number, i.e., "before page 45")

2. ☒ Send to Data Extraction contractors this material:

☒ Newly stamped accepted label

☐ Notification

☐ New CSF

☐ Other: \_\_\_\_\_

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Jasmine Branch

Phone: 347-4351 Division: RD/HB

Date: 2/15/11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



United States  
Environmental Protection  
Agency

Office of Pesticide Programs

SePRO Corporation  
11550 North Meridian Street, Suite 600  
Carmel, IN 46032-4565

FEB 11 2011

Subject: Amendment  
EPA Reg. No.: 67690-30  
Fluridone SC

Dear Mr. Koschnick,

The Agency has received your application for an amendment to the registration for the above product, dated November 17, 2010. The label described above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided the following modifications are made:

1. Remove the word "General" in the heading "General Instructions" on page 7. The term "general" renders the information below unenforceable.

This labeling supersedes all previous accepted labeling for this product. Please submit one (1) copy of the final printed label before the product is released for shipment. A stamped copy of the accepted label is enclosed for your records. If you have any questions, please contact Kathryn Montague (703-305-1243 or [montague.kathryn@epa.gov](mailto:montague.kathryn@epa.gov)).

Sincerely,

A handwritten signature in black ink, appearing to read "Kathryn V. Montague".

Kathryn V. Montague  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

# Fluridone SC

AQUATIC HERBICIDE

(ABN = Avast! SC)

EPA Reg. No. 67690-30

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

SEP 15 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

67690-30

**Registration Notes:** Based on EPA-Stamped Amendment dated June 4, 2008.

## Label Notes:

### General Label Changes:

1. Updated Storage and Disposal language to comply with PR Notice 2007-4. As such, created separate section for the base label and moved this section to front of label document.
2. Per PR Notice 98-10, updated sections of the warranty statement, corrected minor typographical errors and formatting throughout label, and removed references to company website. Additionally, rearranged and reformatted some portions of the label including adding First Aid table to the front label, all containers.



[Base label for all containers]



**Fluridone SC**  
AQUATIC HERBICIDE

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

SEP 15 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

67690-30

**Active Ingredient**

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone ..... 41.7%

**Other Ingredients** ..... 58.3%

**TOTAL** ..... 100.0%

Contains 4 pounds of fluridone per gallon of product.

**Keep Out of Reach of Children****CAUTION / PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail).

**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

**ENVIRONMENTAL HAZARDS**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidalwater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage or disposal.

**Pesticide Storage:**

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

**Pesticide Disposal:**

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

**Container Disposal**

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions.**

Refer to inside the label booklet for additional precautionary information and directions for use.

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.**

EPA Reg. No. 67690-30  
FPL102510

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032, U.S.A.

Net contents \_\_\_\_\_  
[Refillable/Nonrefillable container \_\_\_\_\_]



[Front label, ALL containers]



# Fluridone SC

AQUATIC HERBICIDE

AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.

## Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone ..... 41.7%

Other Ingredients ..... 58.3%

TOTAL ..... 100.0%

Contains 4 pounds of fluridone per gallon.

## Keep Out of Reach of Children

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

Refer to inside of label booklet for additional precautionary information and directions for use including storage and disposal.

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.**

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	



EPA Reg. No. 67690-30  
FPL102510

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

**SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032, U.S.A.**

**Net contents \_\_\_\_\_**  
**[Refillable/Nonrefillable container \_\_\_\_\_]**

(Label booklet text)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

## ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.



**Shake well before using.**

### **STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage or disposal.

#### **Pesticide Storage:**

Store in original container only. Do not store near feed or foodstuffs. Keep from freezing.

#### **Pesticide Disposal:**

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

#### **Container Disposal**

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity  $\leq 5$  gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity  $>5$  gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

### **GENERAL INSTRUCTIONS**



Fluridone SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Fluridone SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the specified concentration of Fluridone SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Fluridone SC in treated water will reduce its effectiveness.

In susceptible plants, Fluridone SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Fluridone SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Fluridone SC. Species susceptibility to Fluridone SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Fluridone SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Fluridone SC is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test), or other appropriate means of analysis, for the determination of the concentration of active ingredient in treated water. Contact SePRO Corporation for the utilization of this test and for the incorporation of this analysis into your treatment program. Application rates are provided in fluid ounces or quarts of Fluridone SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

### **SPECIAL PRECAUTIONS**

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Fluridone SC for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water treated with Fluridone SC for irrigating greenhouse or nursery plants unless use of an approved assay, such as an ELISA Test, confirms that residues are less than 1 ppb.
- **Water Use Restrictions Following Applications of Fluridone SC (Days)**

Application Rate	Drinking <sup>1</sup>	Fishing	Swimming	Livestock/Pet Consumption	Irrigation <sup>2</sup>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

<sup>1</sup> Note below, under *Potable Water Intakes*, the information for application of Fluridone SC within ¼ mile (1,320 feet) of a functional potable water intake.



<sup>2</sup> Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with water treated with Fluridone SC.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Fluridone SC may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** Irrigation with water treated with Fluridone SC may result in injury to the irrigated vegetation. Inform those who irrigate from areas treated with Fluridone SC of the irrigation time frames or water assay requirements presented in the table below. Follow the following time frames and assay directions to reduce the potential for injury to vegetation irrigated with water treated with Fluridone SC. There is a greater potential for crop injury when water treated with Fluridone SC is applied to crops grown in low organic and sandy soils.

WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC			
Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Fluridone SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Fluridone SC treated water is desired for irrigating crops prior to the time frames established above, the use of ELISA or other appropriate means of analysis is recommended to measure the concentration in the treated water. Where ELISA has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

**For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Fluridone SC treated water if concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.**

## WEED CONTROL INFORMATION

Fluridone SC selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions,

using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Fluridone SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Fluridone SC.

### **Vascular Aquatic Plants Controlled by Fluridone SC:**

#### **Floating Plants:**

Duckweed, Common (*Lemna minor*)

#### **Emersed Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

#### **Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria; Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort; Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed

Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

#### **Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

### **Vascular Aquatic Plants Partially Controlled by Fluridone SC:**

#### **Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Fluridone SC applied at the maximum labeled rate.

#### **Emersed Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)

Smartweed (*Polygonum* spp.)

Spikerush (*Eleocharis* spp.)

Waterprimrose, Creeping (*Ludwigia peploides*)

Waterpurslane (*Ludwigia palustris*)

Watershield (*Brasenia schreberi*)

#### **Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)

Pondweed, Illinois (*Potamogeton illinoensis*)

Tapegrass; American Eelgrass (*Vallisneria americana*)

Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)



**Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)  
 Canarygrass, Reed (*Philaris arundinaceae*)  
 Cutgrass, Giant (*Zizaniopsis miliacea*)  
 Torpedograss (*Panicum repens*)  
 Watergrass, Southern (*Hydrochloa caroliniensis*)

**Vascular Aquatic Plants Not Controlled by Fluridone SC:****Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

**Emersed Plants:**

Arrowhead (*Sagittaria* spp.)  
 Bacopa (*Bacopa* spp.)  
 Big Floatingheart; Banana Lily (*Nymphoides aquatica*)  
 Bulrush (*Scirpus* spp.)  
 Frogbit, American (*Limnobium spongia*)  
 Pickerelweed; Lanceleaf (*Pontederia* spp.)  
 Rush (*Juncus* spp.)  
 Waterhyacinth, Floating (*Eichornia crassipes*)  
 Water Pennywort (*Hydrocotyle umbellata*)

**Shoreline Grasses:**

Maidencane (*Panicum hemitomon*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Fluridone SC.

**MIXING AND APPLICATION DIRECTIONS**

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Fluridone SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Fluridone SC well before using.** Add the specified amount of Fluridone SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Fluridone SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Fluridone SC may also be diluted with water and the concentrated mix metered into the pumping system.

**Tank Mix Directions**

Fluridone SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.

**Application to Ponds**

Fluridone SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated



water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre		Fluid Ounces of Fluridone SC per Treated Surface Acre	
	45 ppb	to 90 ppb	45 ppb	to 90 ppb
1	0.12	0.24	3.8	7.7
2	0.24	0.49	7.7	15.7
3	0.37	0.73	11.8	23.4
4	0.49	0.98	15.7	31.4
5	0.61	1.22	19.5	39.0
6	0.73	1.46	23.4	46.7
7	0.85	1.70	27.2	54.4
8	0.98	1.95	31.4	62.4
9	1.10	2.19	35.2	70.1
10	1.22	2.44	39.0	78.1

### Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Fluridone SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

#### ➤ Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs: Where single applications to whole lakes or reservoirs are desired, apply Fluridone SC at an application rate of 10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Choose an application rate from the table below to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following



section, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre			Fluid Ounces of Fluridone SC per Treated Surface Acre		
	10 ppb	to	90 ppb	10 ppb	to	90 ppb
1	0.03		0.24	1.0		7.7
2	0.05		0.49	1.6		15.7
3	0.08		0.73	2.6		23.4
4	0.11		0.98	3.2		31.4
5	0.14		1.22	4.5		39.0
6	0.16		1.46	5.1		46.7
7	0.19		1.70	6.1		54.4
8	0.22		1.95	7.0		62.4
9	0.24		2.19	7.6		70.1
10	0.27		2.44	8.6		78.1
11	0.30		2.68	9.6		86.0
12	0.32		2.93	10.2		93.8
13	0.35		3.17	11.2		101.4
14	0.38		3.42	12.1		109.4
15	0.41		3.66	13.1		117.1
16	0.43		3.90	13.8		124.8
17	0.46		4.15	14.7		132.2
18	0.49		4.39	15.7		140.5
19	0.51		4.63	16.3		148.2
20	0.54		4.88	17.3		156.2

Split or Multiple Applications to Whole Lakes or Reservoirs: To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. ELISA or other appropriate means of analysis, add additional Fluridone SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Fluridone SC, the utilization of ELISA is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

**NOTE:** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.



## ➤ Partial Lake or Reservoir Treatments

Where dilution of Fluridone SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Fluridone SC in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Fluridone SC concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Treatment Areas Greater than ¼ Mile from a Functioning Potable Water Intake: For single applications, apply Fluridone SC at application rates from 30 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications may be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of ELISA, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake: In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Fluridone SC for sites that contain a potable water intake, ELISA or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### **Application Rate Calculation — Ponds, Lakes and Reservoirs**

The amount of Fluridone SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Fluridone SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Fluridone SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Fluridone SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates may not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

### **Application to Drainage Canals and Irrigation Canals**

- Static Canals: In static drainage and irrigation canals, apply Fluridone SC at the rate of 1 to 2 quarts per treated surface acre.
- Moving Water Canals: The performance of Fluridone SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that



maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Fluridone SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of ELISA or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.

- **Static or Moving Water Canals Containing a Functioning Potable Water Intake:** In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Fluridone SC are made within ¼ mile from a functioning potable water intake, the ELISA or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

#### **Application Rate Calculation — Moving Water Drainage Canals and Irrigation Canals**

The amount of Fluridone SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Fluridone SC required per day

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#### **TERMS AND CONDITIONS OF USE**

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies*.

---

#### **WARRANTY DISCLAIMER**

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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#### **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of this product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

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#### **LIMITATION OF REMEDIES**

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or



other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for the product bought, or
- (2) Replacement of amount of the product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use*, and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or this *Limitations of Remedies* in any manner.

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# FAST-TRACK AMENDMENTS-Completeness Screening Checklist

Experts In-Processing Signature: Summer

PM23

EPA Reg. Number: 67690-30

EPA Receipt Date: 11/17/10

	Check List Item	Yes	No	NA
1	Application Form (EPA Form 8570-1) -signed?	✓		
2	Confidential Statement of Formula (EPA Form 8570-29) - signed?			✓
3	Certification with Respect to Citation of Data (EPA Form 8570-34) signed?			✓
4	Formulator's Exemption Statement (EPA Form 8570-27) - signed?			✓
5	Data Matrix (EPA Form 8570-35) [Applicable, for adding me-too uses]			✓
	a) Selective Method?			
	b) Cite-All Method? Applicant owns data or list only the companies offered to pay			
	c) Public copy of Matrix provided? See PR Notice 98-5			
6	Is Label Included? (5 copies)	✓		
	Comments:			

LAL June 4, 2008 - in PPLS  
-has comments



Receipt for Section 3

S: 885803

Regulatory Type: Product Registration - Section 3

Application Type: Amendment

Company: 67690 SEPRO CORPORATION

Risk Manager: Registration Division, Risk Management Team 23

Product #: 67690-30

Product Name: FLURIDONE SC

Override#:

Me Too Section3:

Me Too Product Name:

Application Date: 17-Nov-2010

Front End Date: 17-Nov-2010

FFS Due Date:

OPP Target Date:

Fast Track:

Receipt Description: Label amendment

Form A:

Signature Date:

Resubmission: Yes No

Fee For Service: Yes No

Billable: Yes No

V

OPP Rec'vd Date: 17-Nov-2010

Risk Manager Send Date: 18-Nov-2010

Negotiated Due Date:

New Ingredient:

Request Date:

New Ingredient Received Date:

Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Paper Label

Des

View/Edit



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

November 18, 2010

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

TYLER J. KOSCHNICK, PH.D.  
SEPRO CORPORATION  
11550 N. MERIDIAN ST SUITE 600  
CARMEL, IN 46032

PRODUCT NAME: FLURIDONE SC  
COMPANY NAME: SEPRO CORPORATION  
OPP IDENTIFICATION NUMBER:  
EPA FILE SYMBOL: 67690-30  
EPA RECEIPT DATE: 11/17/10

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 23, at (703) 305-1243.

Sincerely,

*A. E. Moore*  
Front End Processing Staff  
Information Services Branch  
Information Technology & Resources Management Division



# Fee for Service

<sup>perm</sup>  
{885803-~

This package includes the following

- ☐ New Registration
- ☒ Amendment

- ☐ Studies?      ☐ Fee Waiver?
- ☐ volpay    % Reduction: \_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr.    23

Receipt No.

S- 885803

EPA File Symbol/Reg. No.

67690-30

Pin-Punch Date:

11/17/2010

☒ This item is NOT subject to FFS action.

Action Code:

Requested:

Granted:

Amount Due: \$ \_\_\_\_\_

Parent/Child Decisions:

*NON-FEE*


☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: *KV Mark*

Date: *11/17/10*

Remarks:

<b>EPA</b> United States <b>Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> <b>Registration</b> <input checked="" type="checkbox"/> <b>Amendment</b> <input type="checkbox"/> <b>Other</b>	OPP Identifier Number
<b>Application for Pesticide - Section I</b>			
1. Company/Product Number 67690-30		2. EPA Product Manager Kathryn Montague	
4. Company/Product (Name) SePRO Corporation/Fluridone SC		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) SePRO CORPORATION 11550 N. Meridian St., Suite 600 Carmel, IN 46032  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	
<b>Section II</b>			
<input checked="" type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX <input type="checkbox"/> Notification - Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated XX-XX-XX <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below.	
Explanation: Use additional page(s) if necessary. (For section I and Section II.) <b>Submission of 90-day Fast Track Amendment to Update the Fluridone SC Label (EPA Reg. No. 67690-30)</b>			
<b>Section III</b>			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No  <b>*Certification must be submitted</b>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.      No. per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt.      No. per Container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-275 gallons	
		5. Location of Label Directions <input checked="" type="checkbox"/> On Can <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	
<b>Section IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Tyler Koschnick		Title Director, Research and Regulatory Affairs Telephone No. (Include Area Code) (317) 216-8280	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received <b>(Stamped!)</b>
2. Signature BY: 		3. Title Director, Research and Regulatory Affairs	
4. Typed Name: Tyler Koschnick		5. Date: November 17, 2010	





SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 Fax: (317) 428-4577

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November 17, 2010

Kathryn Montague  
Product Manager 23  
Document Processing Desk (AMEND)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**Subject: Submission of 90-day Fast Track Amendment to Update the Fluridone SC Label  
EPA Reg. No. 67690-30**

Dear Ms. Montague:

SePRO Corporation (SePRO) is submitting a 90-day fast track amendment to revise the product label for Fluridone SC (EPA Reg. No. 67690-30). The label revisions include updating the Storage and Disposal language to comply with PR Notice 2007-4. The label was further updated to include revisions to the warranty statement sections, to make minor typographical and formatting corrections, and to delete references to the company website.

Please find enclosed the following information:

- Cover letter (this document);
- Application for Registration, EPA Form 8570-1; and
- Five (5) copies of the product label (1 copy with changes highlighted and 4 clean copies).

If you have any questions regarding this submission, please contact me at (317) 216-8280.

Sincerely,

A handwritten signature in black ink, appearing to read "Tyler J. Koschnick", enclosed in a rectangular box.

Tyler J. Koschnick  
Director, Research and Regulatory Affairs  
SePRO Corporation

Enclosures (x)



SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 • Fax: (317) 428-4577

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August 19, 2008

Ms. Joanne Miller  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
One Potomac Yard, 4<sup>th</sup> Floor, Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

**RE: Submission of Final Printed Labels**  
**Sonar A.S., EPA Reg. No. 67690-4**  
**Fluridone SC, EPA Reg. No. 67690-30**  
**Submission of Final Printed Labels & Notification per PR Notices 2007-4**  
**Sonar X, EPA Reg. No. 67690-12**  
**Sonar SRP, EPA Reg. No. 67690-3**  
**SonarOne, EPA Reg. No. 67690-45**  
**Sonar Q Quick Release, EPA Reg. No. 67690-21**  
**Fluridone SRP, EPA Reg. No. 67690-32**

Dear Ms. Miller:

On behalf of SePRO Corporation (EPA Company #67690), I am submitting the final printed labels for the below products:

1. Sonar A.S., EPA Reg. No. 67690-4
2. Fluridone SC, EPA Reg. No. 67690-30
3. Sonar X, EPA Reg. No. 67690-12
4. Sonar SRP, EPA Reg. No. 67690-3
5. SonarOne, EPA Reg. No. 67690-45
6. Sonar Q Quick Release, EPA Reg. No. 67690-21
7. Fluridone SRP, EPA Reg. No. 67690-32

In addition, the labels for products 3 through 7 are being further updated per PRN 2007-4 and the Questions and Answers supplement to PRN 2007-4. These products are non-dilutable, solids that when sold in nonrefillable containers are not subject to the residue removal requirement of PRN 2007-4. As such, this previously submitted and EPA-approved language is incorrect and is here being removed from the applicable portion of the label for each of these products. I have included an email string between myself and Stephen Schaible and Kimberly Nesci, both of USEPA, with regard to this change.

If you have any questions regarding this submission, please contact me at (317) 580-8286 or amy.d@sepro.com.

Sincerely,

Amy Dugger-Ronyak  
Regulatory Affairs Specialist



## Dugger-Ronyak, Amy

---

**From:** Schaible.Stephen@epamail.epa.gov  
**Sent:** Thursday, May 15, 2008 11:00 AM  
**To:** Dugger-Ronyak, Amy  
**Cc:** Johnson.Hope@epamail.epa.gov; Nesci.Kimberly@epamail.epa.gov  
**Subject:** Re: SePRO Corporation - Fluridone labels submitted under PRN 2007-4  
**Attachments:** Sonar SRP Label\_2008-041008\_Amendment, Fish&Wildlife and PRN-2007-4.pdf; Sonar X Label\_2008-041108\_Amendment, PRN2007-4 & Fish&Wildlife Stmt.pdf; Sonar Q Quick Release Label\_2008-041008\_Amendment, Remove Fish&Wildlife Stmt and PRN 2007-4.pdf; SonarOne Label\_2008-041008\_Amendment-Remove Fish&Game Stmt.pdf; Fluridone SRP Label\_2008-040908\_Amendment, Env. Stmt. & Storage & Disposal\_Pending EPA Approval.pdf

Hi Amy,

Your understanding matches mine. I have just drafted the notification approvals for signature (Sonar and Fluridone Technical labels), and have passed on the 5 notifications you list below to be forwarded to Hope.

Take care! Steve

"Dugger-Ronyak,  
Amy"  
<amyd@sepro.com>

05/14/2008 01:39  
PM

To  
Stephen Schaible/DC/USEPA/US@EPA  
cc  
Kimberly Nesci/DC/USEPA/US@EPA,  
Hope Johnson/DC/USEPA/US@EPA  
Subject  
SePRO Corporation - Fluridone  
labels submitted under PRN 2007-4

Stephen,

I have attached the updated label versions of the following registrations which were originally submitted to comply with PRN 2007-4.

- . Sonar SRP, EPA Reg. No. 67690-3;
- . Sonar X, EPA Reg. No. 67690-12
- . Sonar Q Quick Release, EPA Reg. No. 67690-21;
- . SonarOne, EPA Reg. No. 67690-45; and
- . Fluridone SRP, EPA Reg. No. 67690-32.

After speaking with Kimberly Nesci and yourself, under the storage and disposal section of the label for rigid containers - 5 gallons or less, I have removed the residue removal

statement on these five (5) labels as they are not required to have such as statement due to the fact they are not solid dilutables (see FAQ definition below from Ms. Nesci). This is in spite of the fact that they are packaged in rigid containers.

PLEASE NOTE: It is my understanding that these five (5) labels, in addition to the Sonar AS (EPA Reg. No. 67690-4) and Fluridone SC (EPA Reg. No. 67690-30) labels, will be forwarded to Hope Johnson as fast track label amendments instead of qualifying as notifications under PRN 2007-4 due to the change to the Environmental Hazards section of the label that Hope Johnson requested be made and that was included with this notification.

Also, as we left it at the conclusion of our phone conversation today, it is my understanding that the notifications submitted under PRN 2007-4 for Sonar Technical (EPA Reg. No. 67690-6) and Fluridone Technical (EPA Reg. No. 67690-31) will be approved as notifications as they meet the requirements of PRN 2007-4 and no other changes were made that might move these label changes to the category of fast track label amendment.

Please let me know if there is a problem with any of these changes.  
Thank you for your help with this issue. I appreciate how much you have been involved to ensure our label bears the correct information.

Best Regards,

Amy  
Amy Dugger-Ronyak  
Regulatory Affairs Specialist

SePRO Corporation  
11550 N. Meridian St., Ste. 600  
Carmel, IN 46032 USA  
317-580-8286 (phone)  
317-388-3334 (fax)  
amyd@sepro.com

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-----Original Message-----

From: Nesci.Kimberly@epamail.epa.gov  
[mailto:Nesci.Kimberly@epamail.epa.gov]  
Sent: Wednesday, May 14, 2008 10:49 AM  
To: Dugger-Ronyak, Amy  
Cc: Fitz.Nancy@epamail.epa.gov  
Subject: MUPs, fiber drums, and definition of dilutable

DRAFT QsnAs responses, per our discussion. Please note that these are still being reviewed internally prior to posting to the web, but the information below is accurate:

1 Do technical products or manufacturing use products (MUPs) have to



comply with the container and containment labeling requirements?  
Aren't technical products exempt from the August 2006 container and containment rule?

Yes, technical products and MUPs have to comply with the container and containment labeling requirements. Technical products and MUPs are exempt from the container and containment regulations in 40 CFR part 165, but not from the labeling requirements in 40 CFR part 156 subpart H.

6. Are fiber drums with plastic bag liners considered "rigid"?

No. For the purposes of the container and containment regulations, the Agency is not considering fiber drums with plastic bag liners to be "rigid" containers. The immediate container that the pesticide itself is in contact with is the flexible bag liner. Therefore, these types of nonrefillable containers would not need to bear the triple rinse statements from 40 CFR 156.146.

However, please note that if these containers are refillable, then they would need to bear residue removal language appropriate for that type of container, per 40 CFR 156.156. Existing container disposal statements from PR Notice 83-3 likely would fulfill this requirement.

8. What does "dilutable" mean?

Dilutable means that the pesticide product's labeling allows or requires the pesticide product to be mixed with a liquid diluent prior to application or use. This definition is incorporated in the nonrefillable container residue removal standard in 40 CFR 165.25(f)(1). The Agency intends to make this definition more prominent through anticipated amendments to the container and containment regulations.

Kimberly Nesci  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
(703) 308-8059 phone(See attached file: Sonar SRP Label\_2008-041008\_Amendment, Fish&Wildlife and PRN-2007-4.pdf)(See attached file: Sonar X Label\_2008-041108\_Amendment, PRN2007-4 & Fish&Wildlife Stmt.pdf)(See attached file: Sonar Q Quick Release Label\_2008-041003\_Amendment, Remove Fish&Wildlife Stmt and PRN 2007-4.pdf)(See attached file: SonarOrca Label\_2008-041008\_Amendment-Remove Fish&Game Stmt.pdf)(See attached file: Fluridone SRP Label\_2008-040908\_Amendment, Env. Stmt. & Storage & Disposal\_Pending EPA Approval.pdf)



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 67690-30	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Common/Product (Name) Fluridone SC	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) SePRO Corporation 11550 N. Meridian Street, Suite 600 Carmel, IN 46032 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to 6/4/2008 Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	<input type="checkbox"/> Glass	
			No. per container	<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1G		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Amy Dugger-Ronyak		Title Regul. Affairs Specialist		Telephone No. (Include Area Code) 317-580-8286	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature <i>Amy Dugger-Ronyak</i>		3. Title Regulatory Affairs Specialist			
4. Typed Name Amy Dugger-Ronyak		5. Date August 19, 2008			



# Fluridone SC

AQUATIC HERBICIDE

(ABN = Avast! SC)

EPA Reg. No. 67690-30

**Registration Notes:** Based on EPA-Stamped Amendment dated June 4, 2008.

## Label Notes:

### General Label Changes:

1. Updated Storage and Disposal language to comply with PR Notice 2007-4. As such, created separate section for the base label and moved this section to front of label document.
2. Under Environmental Hazards, removed the statement "In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications." This is being removed by request from USEPA, Hope Johnson.
3. Updated the *Inherent Risks of Use* and *Limitation of Remedies* sections of the warranty statement.
4. Corrected minor typographical errors and formatting, throughout label.
5. The following are changes required by EPA with the 06/04/08 stamped amendment.
  - a. Add an appropriate EPA Establishment Number to the label.
  - b. Add appropriate Net Contents information to the label.
  - c. Revise the order of the First Aid Statements to match the order of the Precautionary Statements.
  - d. On page 6 [now page 7], revise "It is important to maintain the recommended concentration of Fluridone SC in contact with the target plants for a minimum of 45 days." to "It is important to maintain the specified concentration of Fluridone SC in contact with the target plants for a minimum of 45 days."
  - e. On page 6 [now page 7], revise "Mature target plants may require higher application rates and may take longer to control." to "Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control."
  - f. On page 7 [now page 8], in the subsection Irrigation, revise "Those who irrigate from areas treated with Fluridone SC should be informed of the irrigation time frames or water assay requirements...." to "Inform those who irrigate from areas treated with Fluridone SC of the irrigation time frames or water assay requirements...." Also revise "These time frames and assay recommendations are suggestions which should be followed to reduce the potential for injury..." to "Follow the following time frames and assay directions to reduce the potential for injury...."
  - g. On page 7 [now page 8], remove RECOMMENDED from the table heading "RECOMMENDED WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC."
  - h. On page 9 [now page 10], revise "recommended" to "specified" in the statement "Add the recommended amount of Fluridone SC to water in the spray tank during the filling operation."
  - i. On page 10 [now page 11], revise the subheading "Tank Mix Recommendations" to "Tank Mix Directions".

- j. On page 10 [now page 11], revise "Split or multiple applications are recommended where dilution...." to "Split or multiple applications may be used where dilutions...."
- k. On page 10 [now page 11], revise "The following treatments are recommended for treating both whole lakes ..." to "The following treatments may be used for treating both whole lakes ...."
- l. On page 11, revise "Choose an application rate to meet the aquatic plant management objective." to "Choose an application rate from the table below to meet the aquatic plant management objective."
- m. On page 12 [now page 13], revise "Higher application rates may be required and frequency of applications...." to "An application rate at the higher end of the specified rate range may be required and frequency of applications...."
- n. On page 12 [now page 13], revise "Use higher rates where greater dilution with untreated water is anticipated." to "Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated."
- o. On page 12 [now page 13], revise "Split applications should be made to maintain a sufficient...." to "Split applications may be made to maintain a sufficient...."
- p. On page 13, revise "Calculated rates should not exceed the maximum allowable rate in pounds per...." to "Calculated rates may not exceed the maximum allowable rate in pounds per...."
  - i. **NOTE:** the label reads "...maximum allowable rate in quarts per...", thus left in quarts not changed to pounds as this seems to be a typo on EPA's behalf.
- q. On page 13 [now page 14], revise "In static drainage and irrigation canals, Fluridone SC should be applied at the rate of 30 to 150 ppb per treated surface acre." to "In static drainage and irrigation canals, apply Fluridone SC at the rate of 30 to 150 ppb per treated surface acre."



[Base label for Nonrefillable, Rigid containers 5 gal or less]

# Fluridone SC

AQUATIC HERBICIDE

**AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.**

## Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone..... 41.7%

**Other Ingredients** ..... 58.3%

**TOTAL** ..... 100.0%

Contains 4 pounds of fluridone per gallon of product.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## Keep Out of Reach of Children

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail).

**Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.**

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

## ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**Pesticide Disposal:** Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

**Nonrefillable Container Disposal (rigid, 5 gallons or less):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times.

Refer to the label booklet for the Directions for Use.

**NOTICE:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-30  
FPL081408

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

Aquatic Herbicide

Net contents \_\_\_\_\_



[Front of label booklet]



# Fluridone SC

AQUATIC HERBICIDE

**AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.**

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**TOTAL** ..... 100.0%

Contains 4 pounds of fluridone per gallon.

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## CAUTION / PRECAUCIÓN

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(If you do not understand this label, find someone to explain it to you in detail).

**Refer to inside of label booklet for additional precautionary information and Directions for Use including Storage and Disposal.**

**NOTICE:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-30  
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EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

**SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.**

**Aquatic Herbicide**

**Net contents** \_\_\_\_\_

(Label booklet text)

## PRECAUTIONARY STATEMENTS

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Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

**Shake well before using.**



## **GENERAL INSTRUCTIONS**

Fluridone SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Fluridone SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the specified concentration of Fluridone SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Fluridone SC in treated water will reduce its effectiveness.

In susceptible plants, Fluridone SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Fluridone SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Fluridone SC. Species susceptibility to Fluridone SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Fluridone SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Fluridone SC is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test), or other appropriate means of analysis, for the determination of the concentration of active ingredient in treated water. Contact SePRO Corporation for the utilization of this test and for the incorporation of this analysis into your treatment program. Application rates are provided in fluid ounces or quarts of Fluridone SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

## **SPECIAL PRECAUTIONS**

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Fluridone SC for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water treated with Fluridone SC for irrigating greenhouse or nursery plants unless use of an approved assay, such as an ELISA Test, confirms that residues are less than 1 ppb.
- **Water Use Restrictions Following Applications of Fluridone SC (Days)**

<b>Application Rate</b>	<b>Drinking<sup>1</sup></b>	<b>Fishing</b>	<b>Swimming</b>	<b>Livestock/Pet Consumption</b>	<b>Irrigation<sup>2</sup></b>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below



<sup>1</sup> Note below, under *Potable Water Intakes*, the information for application of Fluridone SC within ¼ mile (1,320 feet) of a functional potable water intake.

<sup>2</sup> Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with water treated with Fluridone SC.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Fluridone SC may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** Irrigation with water treated with Fluridone SC may result in injury to the irrigated vegetation. Inform those who irrigate from areas treated with Fluridone SC of the irrigation time frames or water assay requirements presented in the table below. Follow the following time frames and assay directions to reduce the potential for injury to vegetation irrigated with water treated with Fluridone SC. There is a greater potential for crop injury when water treated with Fluridone SC is applied to crops grown in low organic and sandy soils.

WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC			
Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Fluridone SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Fluridone SC treated water is desired for irrigating crops prior to the time frames established above, the use of ELISA or other appropriate means of analysis is recommended to measure the concentration in the treated water. Where ELISA has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf.

**For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Fluridone SC treated water if concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.**



**WEED CONTROL INFORMATION**

Fluridone SC selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions, using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Fluridone SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Fluridone SC.

**Vascular Aquatic Plants Controlled by Fluridone SC:****Floating Plants:**

Duckweed, Common (*Lemna minor*)

**Emersed Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

**Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria; Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort; Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed

Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

**Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

**Vascular Aquatic Plants Partially Controlled by Fluridone SC:****Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Fluridone SC applied at the maximum labeled rate.

**Emersed Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)

Smartweed (*Polygonum* spp.)

Spikerush (*Eleocharis* spp.)

Waterprimrose, Creeping (*Ludwigia peploides*)

Waterpurslane (*Ludwigia palustris*)

Watershield (*Brasenia schreberi*)

**Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)  
 Pondweed, Illinois (*Potamogeton illinoensis*)  
 Tapegrass; American Eelgrass (*Vallisneria americana*)  
 Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)

**Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)  
 Canarygrass, Reed (*Philaris arundinaceae*)  
 Cutgrass, Giant (*Zizaniopsis miliacea*)  
 Torpedograss (*Panicum repens*)  
 Watergrass, Southern (*Hydrochloa caroliniensis*)

**Vascular Aquatic Plants Not Controlled by Fluridone SC:****Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

**Emerald Plants:**

Arrowhead (*Sagittaria* spp.)  
 Bacopa (*Bacopa* spp.)  
 Big Floatingheart; Banana Lily (*Nymphoides aquatica*)  
 Bulrush (*Scirpus* spp.)  
 Frogbit, American (*Limnobium spongia*)  
 Pickerelweed; Lanceleaf (*Pontederia* spp.)  
 Rush (*Juncus* spp.)  
 Waterhyacinth, Floating (*Eichornia crassipes*)  
 Water Pennywort (*Hydrocotyle umbellata*)

**Shoreline Grasses:**

Maidencane (*Panicum hemitomon*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Fluridone SC.

**MIXING AND APPLICATION DIRECTIONS**

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Fluridone SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Fluridone SC well before using.** Add the specified amount of Fluridone SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Fluridone SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Fluridone SC may also be diluted with water and the concentrated mix metered into the pumping system.

**Tank Mix Directions**

Fluridone SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.



### Application to Ponds

Fluridone SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Split or multiple applications may be used where dilution of treated water is anticipated; however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre		Fluid Ounces of Fluridone SC per Treated Surface Acre	
	45 ppb	to 90 ppb	45 ppb	to 90 ppb
1	0.12	0.24	3.8	7.7
2	0.24	0.49	7.7	15.7
3	0.37	0.73	11.8	23.4
4	0.49	0.98	15.7	31.4
5	0.61	1.22	19.5	39.0
6	0.73	1.46	23.4	46.7
7	0.85	1.70	27.2	54.4
8	0.98	1.95	31.4	62.4
9	1.10	2.19	35.2	70.1
10	1.22	2.44	39.0	78.1

### Application to Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Fluridone SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

#### ➤ Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs: Where single applications to whole lakes or reservoirs are desired, apply Fluridone SC at an application rate of 10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Choose an application rate from the table below to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be

contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following section, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre			Fluid Ounces of Fluridone SC per Treated Surface Acre		
	10 ppb	to	90 ppb	10 ppb	to	90 ppb
1	0.03		0.24	1.0		7.7
2	0.05		0.49	1.6		15.7
3	0.08		0.73	2.6		23.4
4	0.11		0.98	3.2		31.4
5	0.14		1.22	4.5		39.0
6	0.16		1.46	5.1		46.7
7	0.19		1.70	6.1		54.4
8	0.22		1.95	7.0		62.4
9	0.24		2.19	7.6		70.1
10	0.27		2.44	8.6		78.1
11	0.30		2.68	9.6		86.0
12	0.32		2.93	10.2		93.8
13	0.35		3.17	11.2		101.4
14	0.38		3.42	12.1		109.4
15	0.41		3.66	13.1		117.1
16	0.43		3.90	13.8		124.8
17	0.46		4.15	14.7		132.2
18	0.49		4.39	15.7		140.5
19	0.51		4.63	16.3		148.2
20	0.54		4.88	17.3		156.2

Split or Multiple Applications to Whole Lakes or Reservoirs: To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. ELISA or other appropriate means of analysis, add additional Fluridone SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Fluridone SC, the utilization of ELISA is strongly recommended



to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

**NOTE:** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### ➤ **Partial Lake or Reservoir Treatments**

Where dilution of Fluridone SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Fluridone SC in a partial lake is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Fluridone SC concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Treatment Areas Greater than ¼ Mile from a Functioning Potable Water Intake: For single applications, apply Fluridone SC at application rates from 30 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications may be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of ELISA, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake: In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Fluridone SC for sites that contain a potable water intake, ELISA or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

### **Application Rate Calculation — Ponds, Lakes and Reservoirs**

The amount of Fluridone SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Fluridone SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Fluridone SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Fluridone SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates may not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.



## Application to Drainage Canals and Irrigation Canals

- **Static Canals:** In static drainage and irrigation canals, apply Fluridone SC at the rate of 1 to 2 quarts per treated surface acre.
- **Moving Water Canals:** The performance of Fluridone SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Fluridone SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of ELISA or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.
- **Static or Moving Water Canals Containing a Functioning Potable Water Intake:** In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Fluridone SC are made within ¼ mile from a functioning potable water intake, the ELISA or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

### Application Rate Calculation — Moving Water Drainage Canals and Irrigation Canals

The amount of Fluridone SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Fluridone SC required per day

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**Pesticide Disposal:** Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

**Nonrefillable Container Disposal (rigid, 5 gallons or less):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times.



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**WARRANTY DISCLAIMER**

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SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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**INHERENT RISKS OF USE**

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation as the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

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**LIMITATION OF REMEDIES**

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer* above and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or *Limitations of Remedies* in any manner.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

4 JUN 2008

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Amy Dugger-Ronyak  
SePRO Corporation  
11550 N. Meridian Street, Suite 600  
Carmel, IN 46032-4565

Subject: Fluridone SC  
EPA Registration Number 67690-30  
Submission dated April 14, 2008  
Response to Agency email dated March 27, 2008

Dear Ms. Dugger-Ronyak:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1) Add an appropriate EPA Establishment Number to the label
- 2) Add appropriate Net Contents information to the label
- 3) Revise the order of the First Aid Statements to match the order of the Precautionary Statements.
- 4) On page 6, revise "It is important to maintain the recommended concentration of Fluridone SC in contact with the target plants for a minimum of 45 days" to "It is important to maintain the specified concentration of Fluridone SC. in contact with the target plants for a minimum of 45 days"
- 5) On page 6, revise "Mature target plants may require higher application rates and may take longer to control" to "Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control"
- 6) On page 7, in the subsection Irrigation, revise "Those who irrigate from areas treated with Fluridone SC should be informed of the irrigation time frames or water assay requirements...." to "Inform those who irrigate from areas treated with Fluridone SC of the irrigation time frames or water assay requirements....." Also revise "These time frames and assay recommendations are suggestions which should be followed to reduce the potential for injury..." To "Follow the following time frames and assay directions to reduce the potential for injury...."
- 7) On page 7, remove RECOMMENDED from the table heading "RECOMMENDED WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC"



- 8) On page 9, revise "recommended" to "specified" in the statement "Add the recommended amount of Sonar A.S. to water in the spray tank during the filling operation"
- 9) On page 10, revise the subheading "Tank Mix Recommendations" to "Tank Mix Directions"
- 10) On page 10, revise "Split or multiple applications are recommended where dilution...." to "Split or multiple applications may be used where dilution...."
- 11) On page 10, revise "The following treatments are recommended for treating both whole lakes..." to "The following treatments may be used for treating both whole lakes..."
- 12) On page 11, revise "Choose an application rate to meet the aquatic plant management objective" to "Choose an application rate from the table below to meet the aquatic plant management objective"
- 13) On page 12, revise "Higher application rates may be required and frequency of applications....." to "An application rate at the higher end of the specified rate range may be required and frequency of applications....."
- 14) On page 12, revise "Use higher rates where greater dilution with untreated water is anticipated" to "Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated"
- 15) On page 12, revise "Split applications should be made to maintain a sufficient...." To "Split applications may be made to maintain a sufficient....."
- 16) On page 13, revise "Calculated rates should not exceed the maximum allowable rate in pounds per ....." to "Calculated rates may not exceed the maximum allowable rate in pounds per ....."
- 17) On page 13, revise "In static drainage and irrigation canals, Fluridone SC should be applied at the rate of 1 to 2 qts per treated surface acre" to "In static drainage and irrigation canals, apply Fluridone SC at the rate of 1 to 2 qts per treated surface acre"

Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records. If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,



Joanne I Miller  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

(Base label for Nonrefillable, Rigid containers 5 gal or less)

AC/PTED Fluridone SC, 67690-30

with COMMENTS

In EPA Letter Dated:

4 JUN 2008

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.



# Fluridone SC

AQUATIC HERBICIDE

67690-30

**AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.**

## Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone ..... 41.7%

**Other Ingredients**.....58.3%

**TOTAL**..... 100.0%

Contains 4 pounds of fluridone per gallon of product.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## Keep Out of Reach of Children

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail).

**Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.**

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	



## ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container only. Do not store near feed or foodstuffs.

In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**Pesticide Disposal:** Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

**Nonrefillable Container Disposal (rigid, 5 gallons or less):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times.

**Refer to the label booklet for the Directions for Use.**

**NOTICE:** Read the entire label before using. Use only according to label directions.

**Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-30  
FPL040808

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

**SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.**

**Aquatic Herbicide**

**Net contents \_\_\_\_\_**

(Front of label booklet)



# Fluridone SC

AQUATIC HERBICIDE

**AN HERBICIDE FOR MANAGEMENT OF AQUATIC VEGETATION IN FRESH WATER PONDS, LAKES, RESERVOIRS, POTABLE WATER SOURCES, DRAINAGE CANALS AND IRRIGATION CANALS.**

## Active Ingredient

fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone ..... 41.7%

**Other Ingredients** ..... 58.3%

**TOTAL** ..... 100.0%

Contains 4 pounds of fluridone per gallon.

## Keep Out of Reach of Children

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail).

**Refer to inside of label booklet for additional precautionary information and Directions for Use including Storage and Disposal.**

**NOTICE:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.**

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-30  
FPL040808

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

**SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.**

**Aquatic Herbicide**

**Net contents** \_\_\_\_\_



(Label booklet text)

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS****Keep Out of Reach of Children****CAUTION / PRECAUCIÓN**

Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b> .	

**ENVIRONMENTAL HAZARDS**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Fluridone SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

**Shake well before using.**

## **GENERAL INSTRUCTIONS**

Fluridone SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Fluridone SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the recommended concentration of Fluridone SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Fluridone SC in treated water will reduce its effectiveness.

In susceptible plants, Fluridone SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Fluridone SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Fluridone SC. Species susceptibility to Fluridone SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Fluridone SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require higher application rates and may take longer to control.

Fluridone SC is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test), or other appropriate means of analysis, for the determination of the concentration of active ingredient in treated water. Contact SePRO Corporation for the utilization of this test and for the incorporation of this analysis into your treatment program.

Application rates are provided in fluid ounces or quarts of Fluridone SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle.** This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

## **SPECIAL PRECAUTIONS**

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Fluridone SC for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water treated with Fluridone SC for irrigating greenhouse or nursery plants unless use of an approved assay, such as an ELISA Test, confirms that residues are less than 1 ppb.
- **Water Use Restrictions Following Applications of Fluridone SC (Days)**



Application Rate	Drinking <sup>1</sup>	Fishing	Swimming	Livestock/Pet Consumption	Irrigation <sup>2</sup>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

<sup>1</sup> Note below, under *Potable Water Intakes*, the information for application of Fluridone SC within ¼ mile (1,320 feet) of a functional potable water intake.

<sup>2</sup> Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with water treated with Fluridone SC.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Fluridone SC may be applied where functioning potable water intakes are present. **NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.**
- **Irrigation:** Irrigation with water treated with Fluridone SC may result in injury to the irrigated vegetation. Those who irrigate from areas treated with Fluridone SC should be informed of the irrigation time frames or water assay requirements presented in the table below. These time frames and assay recommendations are suggestions that should be followed to reduce the potential for injury to vegetation irrigated with water treated with Fluridone SC. There is a greater potential for crop injury when water treated with Fluridone SC is applied to crops grown in low organic and sandy soils.

RECOMMENDED WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH FLURIDONE SC			
Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Fluridone SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Fluridone SC treated water is desired for irrigating crops prior to the time frames established above, the use of ELISA or other appropriate means of analysis is recommended to measure the concentration in the treated water. Where ELISA has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf. **For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Fluridone SC treated water if concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of**

the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.

## **WEED CONTROL INFORMATION**

Fluridone SC selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions, using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Fluridone SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Fluridone SC.

### **Vascular Aquatic Plants Controlled by Fluridone SC:**

#### **Floating Plants:**

Duckweed, Common (*Lemna minor*)

#### **Emerald Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

#### **Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria; Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort; Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed

Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

#### **Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

### **Vascular Aquatic Plants Partially Controlled by Fluridone SC:**

#### **Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Fluridone SC applied at the maximum labeled rate.

#### **Emerald Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)

Smartweed (*Polygonum* spp.)

Spikerush (*Eleocharis* spp.)



Waterprimrose, Creeping (*Ludwigia peploides*)  
 Waterpurslane (*Ludwigia palustris*)  
 Watershield (*Brasenia schreberi*)

#### **Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)  
 Pondweed, Illinois (*Potamogeton illinoensis*)  
 Tapegrass; American Eelgrass (*Vallisneria americana*)  
 Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)

#### **Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)  
 Canarygrass, Reed (*Philaris arundinaceae*)  
 Cutgrass, Giant (*Zizaniopsis miliacea*)  
 Torpedograss (*Panicum repens*)  
 Watergrass, Southern (*Hydrochloa caroliniensis*)

### **Vascular Aquatic Plants Not Controlled by Fluridone SC:**

#### **Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

#### **Emerald Plants:**

Arrowhead (*Sagittaria* spp.)  
 Bacopa (*Bacopa* spp.)  
 Big Floatingheart; Banana Lily (*Nymphoides aquatica*)  
 Bulrush (*Scirpus* spp.)  
 Frogbit, American (*Limnobium spongia*)  
 Pickerelweed; Lanceleaf (*Pontederia* spp.)  
 Rush (*Juncus* spp.)  
 Waterhyacinth, Floating (*Eichornia crassipes*)  
 Water Pennywort (*Hydrocotyle umbellata*)

#### **Shoreline Grasses:**

Maidencane (*Panicum hemitomom*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Fluridone SC.

### **MIXING AND APPLICATION DIRECTIONS**

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Fluridone SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Fluridone SC well before using.** Add the recommended amount of Fluridone SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Fluridone SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Fluridone SC may also be diluted with water and the concentrated mix metered into the

pumping system.

### Tank Mix Recommendations

Fluridone SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.

### Application to Ponds

Fluridone SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Split or multiple applications are recommended where dilution of treated water is anticipated; however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre			Fluid Ounces of Fluridone SC per Treated Surface Acre		
	45 ppb	to	90 ppb	45 ppb	to	90 ppb
1	0.12		0.24	3.8		7.7
2	0.24		0.49	7.7		15.7
3	0.37		0.73	11.8		23.4
4	0.49		0.98	15.7		31.4
5	0.61		1.22	19.5		39.0
6	0.73		1.46	23.4		46.7
7	0.85		1.70	27.2		54.4
8	0.98		1.95	31.4		62.4
9	1.10		2.19	35.2		70.1
10	1.22		2.44	39.0		78.1

### Application to Lakes and Reservoirs

The following treatments are recommended for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Fluridone SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

#### ➤ Whole Lake or Reservoir Treatments (Limited or No Water Discharge)

Single Application to Whole Lakes or Reservoirs: Where single applications to whole lakes or reservoirs are desired, apply Fluridone SC at an application rate of



10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled *Application Rate Calculation - Ponds, Lakes and Reservoirs*. Choose an application rate to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following section, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Fluridone SC per Treated Surface Acre			Fluid Ounces of Fluridone SC per Treated Surface Acre		
	10 ppb	to	90 ppb	10 ppb	to	90 ppb
1	0.03		0.24	1.0		7.7
2	0.05		0.49	1.6		15.7
3	0.08		0.73	2.6		23.4
4	0.11		0.98	3.2		31.4
5	0.14		1.22	4.5		39.0
6	0.16		1.46	5.1		46.7
7	0.19		1.70	6.1		54.4
8	0.22		1.95	7.0		62.4
9	0.24		2.19	7.6		70.1
10	0.27		2.44	8.6		78.1
11	0.30		2.68	9.6		86.0
12	0.32		2.93	10.2		93.8
13	0.35		3.17	11.2		101.4
14	0.38		3.42	12.1		109.4
15	0.41		3.66	13.1		117.1
16	0.43		3.90	13.8		124.8
17	0.46		4.15	14.7		132.2
18	0.49		4.39	15.7		140.5
19	0.51		4.63	16.3		148.2
20	0.54		4.88	17.3		156.2

Split or Multiple Applications to Whole Lakes or Reservoirs: To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. ELISA or other appropriate means of analysis, add additional Fluridone SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Fluridone SC, the utilization of ELISA is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

**NOTE:** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within  $\frac{1}{4}$  mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

#### ➤ **Partial Lake or Reservoir Treatments**

Where dilution of Fluridone SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Fluridone SC in a partial lake is highly dependent upon the treatment area. Higher application rates may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Fluridone SC concentration in the treatment area. Use higher rates where greater dilution with untreated water is anticipated.

Treatment Areas Greater than  $\frac{1}{4}$  Mile from a Functioning Potable Water Intake: For single applications, apply Fluridone SC at application rates from 30 to 150 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of ELISA, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within  $\frac{1}{4}$  Mile of a Functioning Potable Water Intake: In treatment areas that are within  $\frac{1}{4}$  mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Fluridone SC for sites that contain a potable water intake, ELISA or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.



**Application Rate Calculation — Ponds, Lakes and Reservoirs**

The amount of Fluridone SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Fluridone SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Fluridone SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Fluridone SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates should not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

**Application to Drainage Canals and Irrigation Canals**

- **Static Canals:** In static drainage and irrigation canals, Fluridone SC should be applied at the rate of 1 to 2 quarts per treated surface acre.
- **Moving Water Canals:** The performance of Fluridone SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Fluridone SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of ELISA or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.
- **Static or Moving Water Canals Containing a Functioning Potable Water Intake:** In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Fluridone SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Fluridone SC are made within ¼ mile from a functioning potable water intake, the ELISA or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

**Application Rate Calculation — Moving Water Drainage Canals and Irrigation Canals**

The amount of Fluridone SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)



2.  $\text{CFS} \times 1.98 = \text{acre-feet per day (water movement)}$
3.  $\text{Acre-feet per day} \times \text{desired ppb} \times 0.0027 = \text{Quarts of Fluridone SC required per day}$

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**Pesticide Disposal:** Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

**Nonrefillable Container Disposal (rigid, 5 gallons or less):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times.

### WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

### INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation as the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

### LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.



The terms of the *Warranty Disclaimer* above and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or *Limitations of Remedies* in any manner.

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SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 • Fax: (317) 428-4577

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April 14, 2008

Ms. Hope Johnson  
Document Processing Desk (AMEND)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
One Potomac Yard, 4<sup>th</sup> Floor, Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

**RE: Amendment per EPA Request and PR Notices 2007-4 & 1998-10  
Fluridone SC, EPA Reg. No. 67690-30**

Dear Ms. Johnson:

On behalf of SePRO Corporation (EPA Company #67690), I am submitting a label amendment for the product Fluridone SC, EPA Reg. No. 67690-30. The following changes have been made to the label:

1. Under the Environmental Hazards section(s), at EPA's request, deleted the statement "In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications."
2. Updated the storage and disposal language to comply with PR Notice 2007-4 "Labeling Revisions Required by the Final Rule "Pesticide Management and Disposal; Standards for Pesticide Containers and Containment".
3. Updated the Warranty Statement and made additional changes that qualify as notification(s)/non-notification(s) per PR Notice 1998-10.

Please find enclosed the following information to support this request:

- Transmittal document (this letter);
- Application for Pesticide Registration, EPA Form 8570-1;
- Email from Hope Johnson, USEPA requesting changes to the Environmental Hazards section of the label; and
- Three (3) copies of the updated label (FPL040808).

If you have any questions regarding this submission, please contact me at (317) 580-8238 or amy.d@sepro.com.

Sincerely,

A handwritten signature in blue ink that reads "Amy Dugger-Ronyak".

Amy Dugger-Ronyak  
Regulatory Affairs Specialist

Enclosures (5)





United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 67690-30	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Fluridone SC	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This submission is two-fold. One, per request by Hope Johnson of USEPA (see enclosed email request), delete from the Environmental Hazards section(s) of the label the statement "In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications." Secondly, this submission is made to update the label per PRN 2007-4 & 1998-10.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 Gallon		5. Location of Label Directions <input type="checkbox"/> booklet	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Amy Dugger-Ronyak		Title Regulatory Affairs Specialist	
		Telephone No. (Include Area Code) 317-580-8286	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Affairs Specialist	
4. Typed Name Amy Dugger-Ronyak		5. Date April 14, 2008	

## **Dugger-Ronyak, Amy**

---

**From:** Johnson.Hope@epamail.epa.gov  
**Sent:** Thursday, March 27, 2008 1:45 PM  
**To:** Dugger-Ronyak, Amy  
**Subject:** Request for removal of statement from Environmental Hazards section of Sonar products

Ms. Amy Drugger-Ronyak,

The Agency has learned that users are having issues with a statement that occurs in the Environmental Hazards section of the Sonar A.S. label (EPA Registration Number 67690-4).

The statement referred to is: "In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications."

This statement may occur on other Sonar labels as well. We are requesting that you remove the above statement from your labels at your earliest convenience and submit a label amendment reflecting the removal. If you have any questions, please contact me at the number below.

Thanks!

Hope A. Johnson  
U.S. Environmental Protection Agency  
Office of Pesticide Programs  
Registration Division  
Herbicide Branch  
Phone: 703-305-5410  
Mail Code 7505P





<b>United States</b> <b>Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
<b>Application for Pesticide - Section I</b>			
1. Company/Product Number 67690-30		2. EPA Product Manager Joanne Miller	
4. Company/Product (Name) Fluridone SC		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4564 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
<b>Section - II</b>			
<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.	
<b>NOTIFICATION</b> MAY 15 2006			
<b>Explanation:</b> Use additional page(s) if necessary. (For section I and Section II.) Pursuant to PR Notice 98-10, this notification is made to update typographic and formatting issues as well as move the Storage and Disposal statement to the end of the Directions for Use section.			
<b>Section - III</b>			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt    No. per container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		5. Location of Label Directions <input type="checkbox"/> Other _____	
<b>Section - IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Amy Dugger-Ronyak		Title Regulatory Affairs Specialist	Telephone No. (include Area Code) 317 5C0-8286
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)  SIG
2. Signature 		3. Title Regulatory Affairs Specialist	
4. Typed Name Amy Dugger-Ronyak		5. Date May 4, 2006	

[BOOKLET FRONT PANEL]

NOTIFICATION

MAY 15 2006

**AVAST!\* SC**

AQUATIC HERBICIDE

**An herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, potable water sources, drainage canals and irrigation canals.**

Active Ingredient

Fluridone:

1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone. . . . . 41.7%

Inert Ingredients . . . . . 58.3%

Total. . . . . 100.0%

Contains 4 pounds of fluridone per gallon.

**Keep Out of Reach of Children****CAUTION / PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

**Refer to inside of label booklet for additional precautionary information and Directions for Use including Storage and Disposal information.**

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer", "Inherent Risks of Use" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-30  
FPL 042606

EPA Est. No. 7429-GA-1  
SPC-xxxxxx

\*Trademark of SePRO Corporation

**SePRO Corporation Carmel, IN 46032, U.S.A.**

Herbicide

Net Contents: 1 Gallon



[LABEL BOOKLET TEXT]

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## Precautionary Statements

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep Out of Reach of Children

## CAUTION / PRECAUCIÓN

Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

First Aid	
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.	

### ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on non-target organisms. In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications.

Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Avast! SC may occasionally develop chlorosis. Do not apply in tidewater/brackish water.

Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

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## Directions for Use

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It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Shake well before using.

### GENERAL INSTRUCTIONS

Avast! SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Avast! SC is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the recommended concentration of Avast! SC in contact with the target plants for a minimum of 45 days.

Rapid water movement or any condition that results in rapid dilution of Avast! SC in treated water will reduce its effectiveness.

In susceptible plants, Avast! SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Avast! SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is achieved with Avast! SC. Species susceptibility to Avast! SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Avast! SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require higher application rates and may take longer to control.

Avast! SC is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test), or other appropriate means of analysis, for the determination of the concentration of active ingredient in treated water. Contact SePRO Corporation for the utilization of this test and for the incorporation of this analysis into your treatment program.

Application rates are provided in fluid ounces or quarts of Avast! SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle. This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

### **SPECIAL PRECAUTIONS**

- **Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use water treated with Avast! SC for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water treated with Avast! SC for irrigating greenhouse or nursery plants unless use of an approved assay, such as an ELISA Test, confirms that residues are less than 1 ppb.
- **Water Use Restrictions Following Applications of Avast! SC (Days)**

Application Rate	Drinking <sup>1</sup>	Fishing	Swimming	Livestock/Pet Consumption	Irrigation <sup>2</sup>
Maximum Rate (150 ppb) or less	0	0	0	0	See irrigation instructions below

<sup>1</sup> Note below, under Potable Water Intakes, the information for application of Avast! SC within ¼ mile (1320 feet) of a functional potable water intake.

<sup>2</sup> Note below, under Irrigation, specific time frames or Avast! residues that provide the widest margin of safety for irrigating with water treated with Avast! SC.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, DO NOT apply Avast! SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Avast! SC may be applied where functioning potable water intakes are present.

**NOTE:** Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.



- **Irrigation:** Irrigation with water treated with Avast! SC may result in injury to the irrigated vegetation. Those who irrigate from areas treated with Avast! SC should be informed of the irrigation time frames or water assay requirements presented in the table below. These time frames and assay recommendations are suggestions that should be followed to reduce the potential for injury to vegetation irrigated with water treated with Avast! SC. There is a greater potential for crop injury when water treated with Avast! SC is applied to crops grown in low organic and sandy soils.

#### Recommended Waiting Periods Before Irrigating with Water Treated with Avast! SC

Application Site	Days After Application		
	Established Tree Crops	Established Row Crops/ Turf/Plants	Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals <sup>1</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>2</sup>	7	14	Assay required

<sup>1</sup> For purposes of Avast! SC labeling, a pond is defined as a body of water 10 acres or less in size. A lake or reservoir is greater than 10 acres.

<sup>2</sup> In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

Where the use of Avast! SC treated water is desired for irrigating crops prior to the time frames established above, the use of ELISA or other appropriate means of analysis is recommended to measure the concentration in the treated water. Where ELISA has determined that concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf. For tobacco, tomatoes, peppers or other plants within the Solanaceae family and for newly seeded grasses, such as overseeded golf course greens, do not use Avast! SC treated water if concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.

#### WEED CONTROL INFORMATION

Avast! SC selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, Controlled, Partially Controlled and Not Controlled, are provided to describe expected efficacy under ideal treatment conditions, using higher to maximum application rates. Use of lower rates will increase selectivity of some species listed as Controlled or Partially Controlled. Additional aquatic plants may be controlled, partially controlled or tolerant to Avast! SC. Consult an aquatic specialist prior to application to determine a plant's susceptibility to Avast! SC.

#### ➤ Vascular Aquatic Plants Controlled by Avast! SC

##### **Floating Plants:**

Duckweed, Common (*Lemna minor*)

##### **Emerald Plants:**

Spatterdock (*Nuphar luteum*)

Waterlily (*Nymphaea* spp.)

##### **Submersed Plants:**

Bladderwort (*Utricularia* spp.)

Coontail, Common (*Ceratophyllum demersum*)

Egeria; Brazilian Elodea (*Egeria densa*)

Elodea, Common (*Elodea canadensis*)

Fanwort; Cabomba (*Cabomba caroliniana*)

Hydrilla (*Hydrilla verticillata*)

Naiad (*Najas* spp.)

Pondweed (*Potamogeton* spp.), except Illinois Pondweed  
 Watermilfoil (*Myriophyllum* spp.), except Variable-Leaf Milfoil

**Shoreline Grasses:**

Paragrass (*Urochloa mutica*)

➤ **Vascular Aquatic Plants Partially Controlled by Avast! SC**

**Floating Plants:**

Salvinia (*Salvinia* spp.)

Watermeal, Common (*Wolffia columbiana*)<sup>1</sup>

<sup>1</sup> Partial control only with Avast! SC applied at the maximum labeled rate.

**Emerald Plants:**

Alligatorweed (*Alternanthera philoxeroides*)

Cattail (*Typha* spp.)

Lotus, American (*Nelumbo lutea*)

Parrotfeather (*Myriophyllum aquaticum*)

Smartweed (*Polygonum* spp.)

Spikerush (*Eleocharis* spp.)

Waterprimrose, Creeping (*Ludwigia peploides*)

Waterpurslane (*Ludwigia palustris*)

Watershield (*Brasenia schreberi*)

**Submersed Plants:**

Limnophila (*Limnophila sessiliflora*)

Pondweed, Illinois (*Potamogeton illinoensis*)

Tapegrass; American Eelgrass (*Vallisneria americana*)

Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*)

**Shoreline Grasses:**

Barnyardgrass (*Echinochloa crusgalli*)

Canarygrass, Reed (*Phalaris arundinaceae*)

Cutgrass, Giant (*Zizaniopsis miliacea*)

Torpedograss (*Panicum repens*)

Watergrass, Southern (*Hydrochloa caroliniensis*)

➤ **Vascular Aquatic Plants Not Controlled by Avast! SC**

**Floating Plants:**

Water Lettuce (*Pistia stratiotes*)

**Emerald Plants:**

Arrowhead (*Sagittaria* spp.)

Bacopa (*Bacopa* spp.)

Big Floatingheart; Banana Lily (*Nymphoides aquatica*)

Bulrush (*Scirpus* spp.)

Frogbit, American (*Limnobium spongia*)

Pickrelweed; Lanceleaf (*Pontederia* spp.)

Rush (*Juncus* spp.)

Waterhyacinth, Floating (*Eichornia crassipes*)

Water Pennywort (*Hydrocotyle umbellata*)

**Shoreline Grasses:**

Maidencane (*Panicum hemitomon*)

**NOTE:** Algae (*Chara*, *Nitella* and filamentous species) are not controlled by Avast! SC.

**MIXING AND APPLICATION DIRECTIONS**



The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Avast! SC. It is also important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

**Shake Avast! SC well before using.** Add the recommended amount of Avast! SC to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Avast! SC can also be applied near the surface of the hydrosol using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Avast! SC may also be diluted with water and the concentrated mix metered into the pumping system.

- **Tank Mix Recommendations**

Avast! SC may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the label of the companion herbicide or algaecide for use directions, precautions and restrictions.

- **Application to Ponds**

Avast! SC may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 45 to 90 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more difficult to control species, and for ponds that are less than 5 acres in size with an average depth of less than 4 feet. Application rates necessary to obtain these active ingredient concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled Application Rate Calculation - Ponds, Lakes and Reservoirs. Split or multiple applications are recommended where dilution of treated water is anticipated; however, the sum of all applications must not exceed a total of 90 ppb per annual growth cycle.

Average Water Depth of Treatment Site (feet)	Quarts of Avast! SC per Treated Surface Acre		Fluid Ounces of Avast! SC per Treated Surface Acre	
	45 ppb	to 90 ppb	45 ppb	to 90 ppb
1	0.12	0.24	3.8	7.7
2	0.24	0.49	7.7	15.7
3	0.37	0.73	11.8	23.4
4	0.49	0.98	15.7	31.4
5	0.61	1.22	19.5	39.0
6	0.73	1.46	23.4	46.7
7	0.85	1.70	27.2	54.4
8	0.98	1.95	31.4	62.4
9	1.10	2.19	35.2	70.1
10	1.22	2.44	39.0	78.1

- **Application to Lakes and Reservoirs**

The following treatments are recommended for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating partial lakes and reservoirs, Avast! SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution by untreated water. Rate ranges are provided as a guide to include a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

➤ **Whole Lake or Reservoir Treatments (Limited or No Water Discharge)**

1. **Single Application to Whole Lakes or Reservoirs:** Where single applications to whole lakes or reservoirs are desired, apply Avast! SC at an application rate of 10 to 90 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional application rate calculations, refer to the section of this label entitled Application Rate Calculation - Ponds, Lakes and Reservoirs. Choose an application rate to meet the aquatic plant management objective. Where greater plant selectivity is desired, such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the following section, Split or Multiple Applications to Whole Lakes or Reservoirs, for guidelines and maximum rate allowed.

Average Water Depth of Treatment Site (feet)	Quarts of Avast! SC per Treated Surface Acre		Fluid Ounces of Avast! SC per Treated Surface Acre	
	10 ppb	to 90 ppb	10 ppb	to 90 ppb
1	0.03	0.24	1.0	7.7
2	0.05	0.49	1.6	15.7
3	0.08	0.73	2.6	23.4
4	0.11	0.98	3.2	31.4
5	0.14	1.22	4.5	39.0
6	0.16	1.46	5.1	46.7
7	0.19	1.70	6.1	54.4
8	0.22	1.95	7.0	62.4
9	0.24	2.19	7.6	70.1
10	0.27	2.44	8.6	78.1
11	0.30	2.68	9.6	86.0
12	0.32	2.93	10.2	93.8
13	0.35	3.17	11.2	101.4
14	0.38	3.42	12.1	109.4
15	0.41	3.66	13.1	117.1
16	0.43	3.90	13.8	124.8
17	0.46	4.15	14.7	132.2
18	0.49	4.39	15.7	140.5
19	0.51	4.63	16.3	148.2
20	0.54	4.88	17.3	156.2

2. **Split or Multiple Applications to Whole Lakes or Reservoirs:** To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. ELISA or other appropriate means of analysis, add additional Avast! SC to maintain this lower dose for sufficient time to ensure efficacy and enhance selectivity. Water may be treated with an initial application of 6 to 50 ppb. Additional split applications should be made to maintain a sufficient concentration for a minimum of 45 days. In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range. For other plant species, an aquatic specialist should be contacted to determine when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Avast! SC, the utilization of ELISA is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.



**NOTE:** In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

➤ **Partial Lake or Reservoir Treatments**

Where dilution of Avast! SC with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time with the target plants. The application rate and use frequency of Avast! SC in a partial lake is highly dependent upon the treatment area. Higher application rates may be required and frequency of applications will vary depending upon the potential for untreated water to dilute the Avast! SC concentration in the treatment area. Use higher rates where greater dilution with untreated water is anticipated.

1. Treatment Areas Greater than ¼ Mile from a Functioning Potable Water Intake: For single applications, apply Avast! SC at application rates from 30 to 150 ppb. Split or multiple applications may be made, however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be made to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of ELISA, or other appropriate means of analysis, is recommended to maintain the desired concentration in the target area over time.
2. Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake: In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Avast! SC for sites that contain a potable water intake, ELISA or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

**Application Rate Calculation - Ponds, Lakes and Reservoirs**

The amount of Avast! SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

- Quarts of Avast! SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Avast! SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quarts per treated surface acre}$$

When measuring quantities of Avast! SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

**NOTE:** Calculated rates should not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

**Application to Drainage Canals and Irrigation Canals**

Static Canals: In static drainage and irrigation canals, Avast! SC should be applied at the rate of 1 to 2 quarts per treated surface acre.

Moving Water Canals: The performance of Avast! SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Avast! SC can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern. The use of ELISA or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.

Static or Moving Water Canals Containing a Functioning Potable Water Intake: In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Avast! SC at application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake.



application rates greater than 20 ppb within ¼ mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; however, if applications of Avast! SC are made within ¼ mile from a functioning potable water intake, the ELISA or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

#### **Application Rate Calculation – Moving Water Drainage Canals and Irrigation Canals**

The amount of Avast! SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Avast! SC required per day

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**PESTICIDE DISPOSAL:** Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **Warranty Disclaimer**

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

#### **Inherent Risks Of Use**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, ect.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation as the seller. All such risks shall be assumed by buyer.

#### **Limitation of Remedies**

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies can not be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitations of Remedies in any manner.



[BASE PANEL]

**AVAST!\* SC**

AQUATIC HERBICIDE

**An** herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, potable water sources, drainage canals and irrigation canals.

Active Ingredient

Fluridone:

1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone. . . . . 41.7%

Inert Ingredients . . . . . 58.3%

Total. . . . . 100.0%

Contains 4 pounds of fluridone per gallon.

**Keep Out of Reach of Children****CAUTION / PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

**Precautionary Statements****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

<b>First Aid</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <b>In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.</b>	

**ENVIRONMENTAL HAZARDS**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. In order to

avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications.

Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Avast! SC may occasionally develop chlorosis. Do not apply in tidalwater/brackish water.

Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

**Refer to inside of label booklet for additional precautionary information and Directions for Use including Storage and Disposal information.**

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer", "Inherent Risks of Use" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-30  
**FPL 042606**

EPA Est. No. 7429-GA-1  
**SPC-xxxxxx**

\*Trademark of SePRO Corporation  
**SePRO Corporation Carmel, IN 46032, U.S.A.**

Herbicide

Net Contents: 1 Gallon





SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565  
Phone: (317) 580-8282 • Fax: (317) 580-8280

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May 4, 2006

Ms. Joanne Miller  
Herbicide Branch, Product Manager 23  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**RE: Notification Submission of label update  
Fluridone SC  
EPA Reg. No. 67690-30**

**NOTIFICATION**

**MAY 10 2006**

Dear Ms Miller:

On behalf of SePRO Corporation (11550 North Meridian Street, Suite 600, Carmel, Indiana 46032-4565, EPA Company #67690), I am submitting information to amend the product label for Fluridone SC to correct minor typographic and formatting issues as well as move the Storage and Disposal statement to the end of the Directions for Use section, as indicated in the label review manual. Please find enclosed the following information:

- Transmittal document (this letter)
- Application for Pesticide Registration, EPA Form 8570-1
- 5 (five) copies of the updated label with changes highlighted.

This notification is consistent with the provisions of the PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

If you have any questions regarding this submission, please contact me at (317) 580-8286.

Sincerely,

  
Amy Dugger-Ronyak  
Regulatory Affairs Specialist  
SePRO Corporation

Enclosures (6)  
cc: Steve D. Cockreham, SePRO